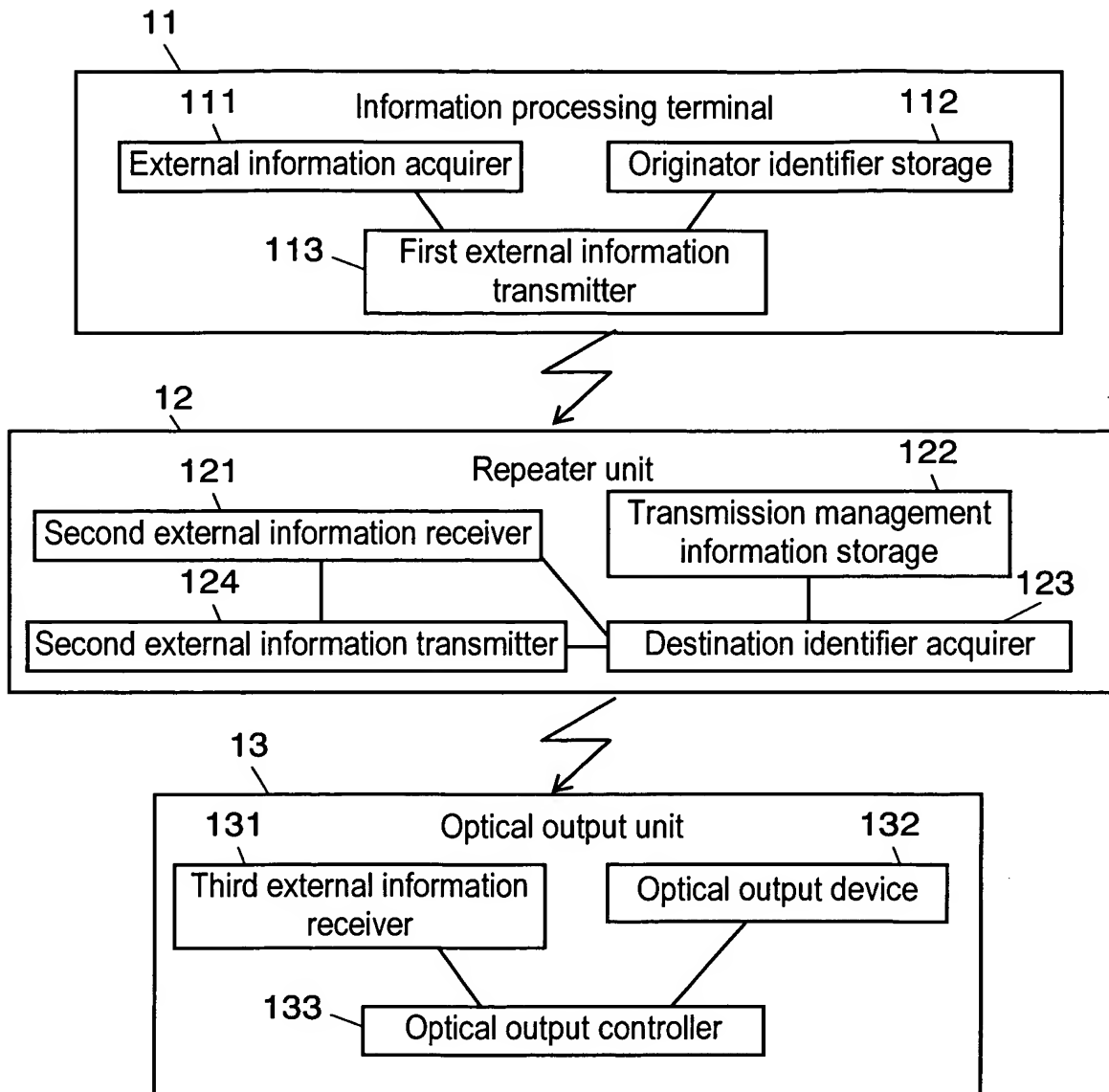


10/506847

1/44

FIG. 1



10/506847

2/44

FIG. 2

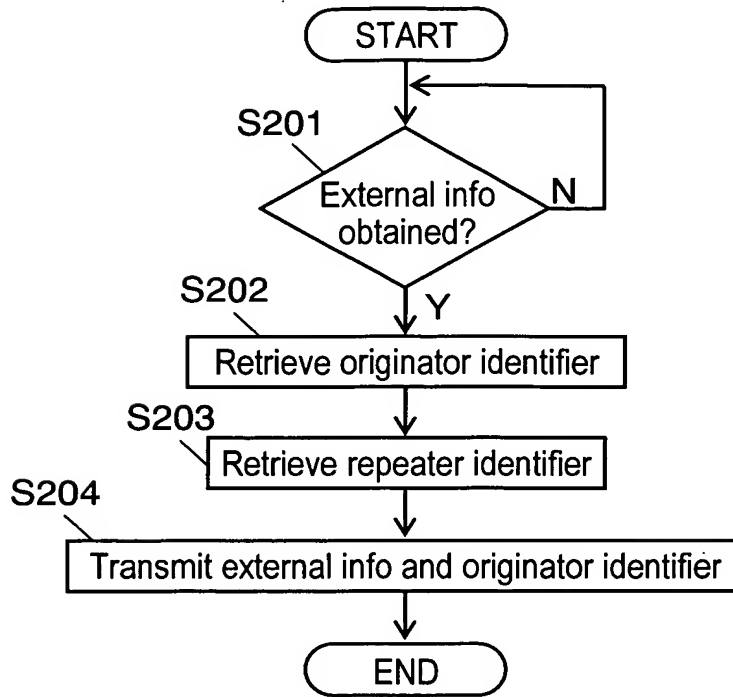
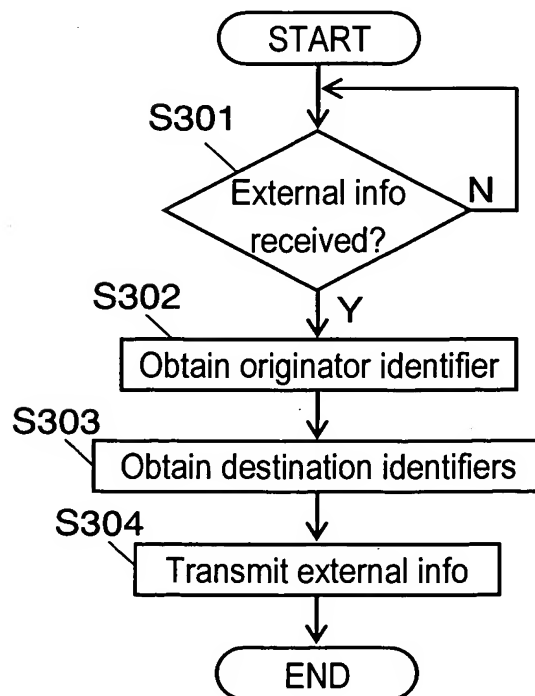


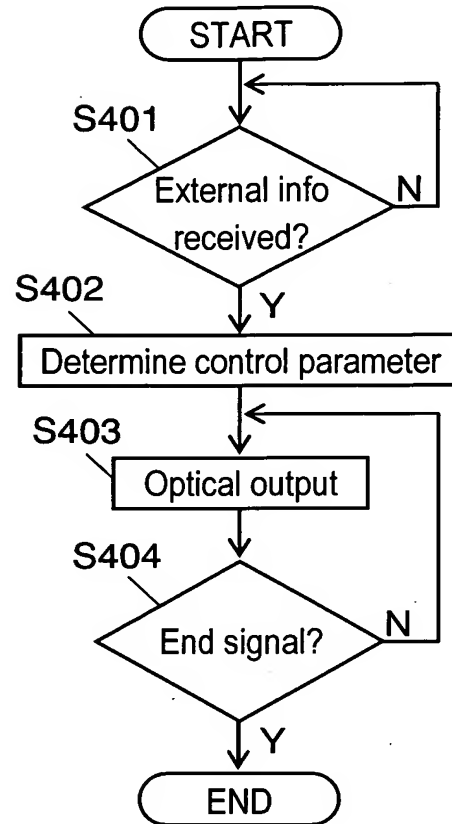
FIG. 3



10/506847

3/44

FIG. 4



4/44

FIG. 5

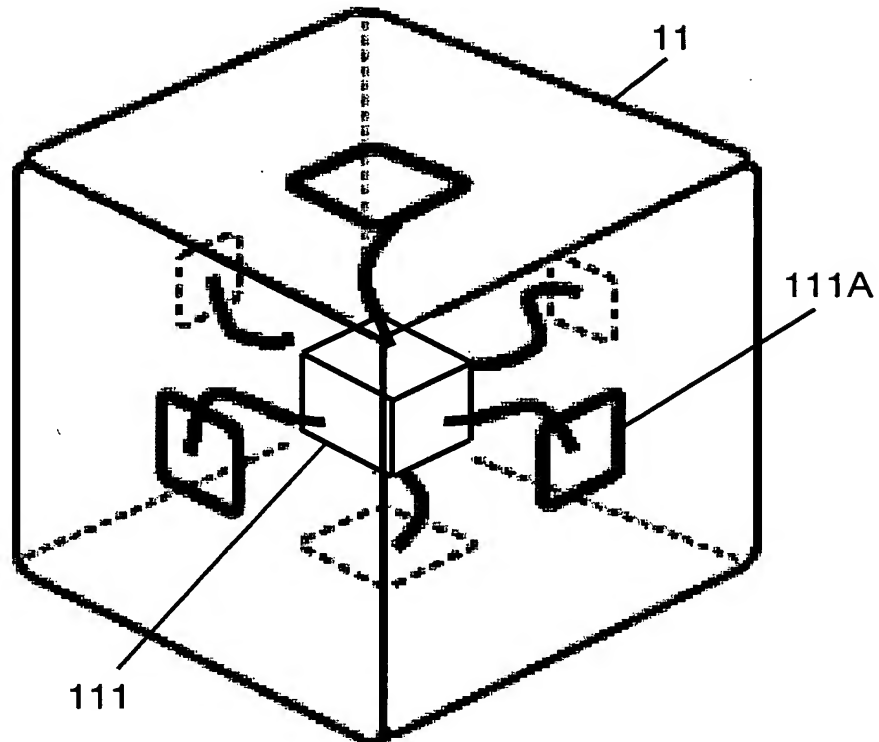
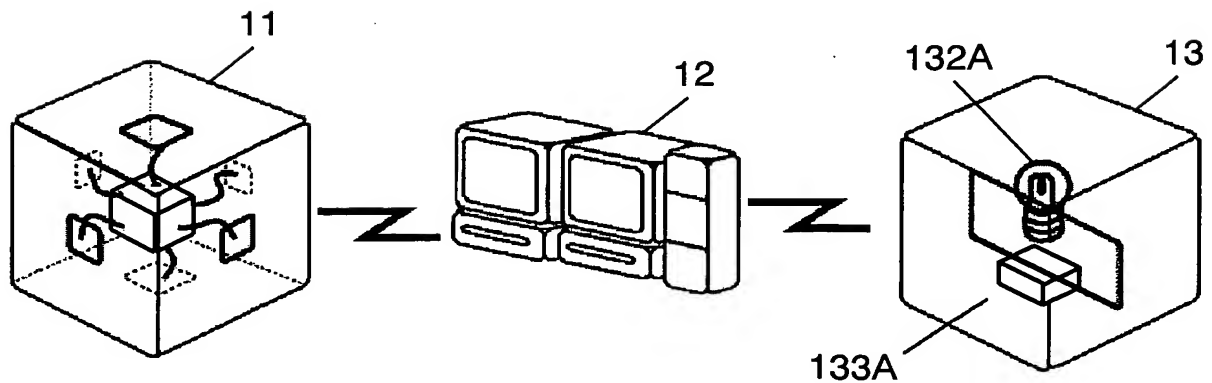


FIG. 6



10/506847

5/44

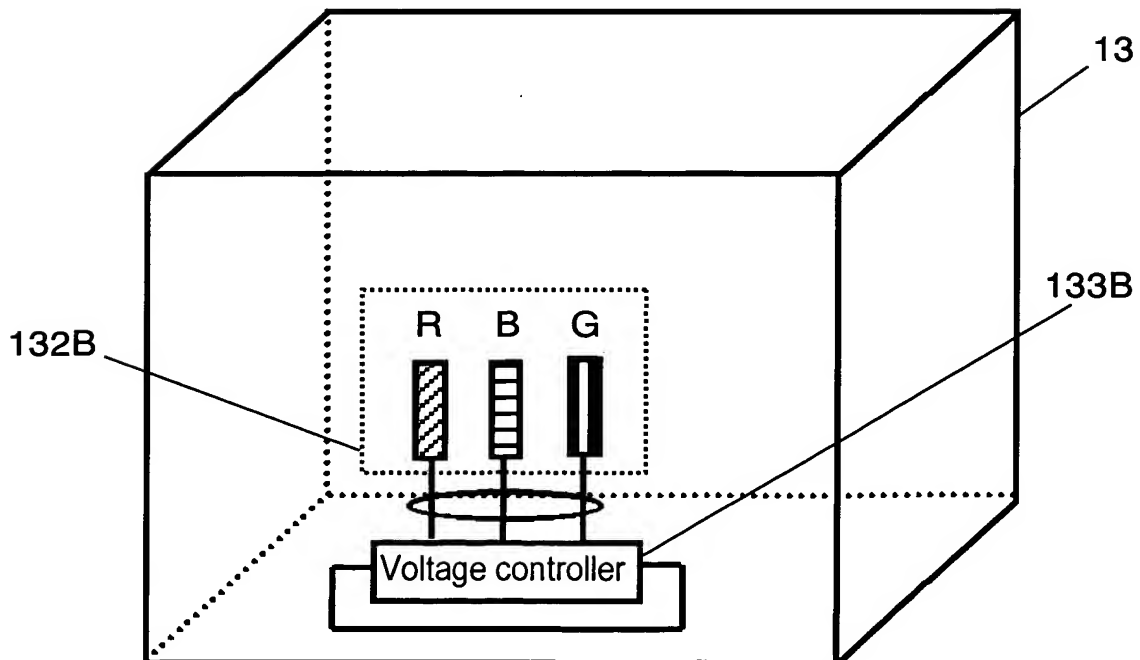
FIG. 7

Obtained External Information	External Information to be Transmitted
(10,20,10,10,10,0)	10

FIG. 8

Received External Information	Voltage
20 or less	Value of received external information
Larger than 20	20

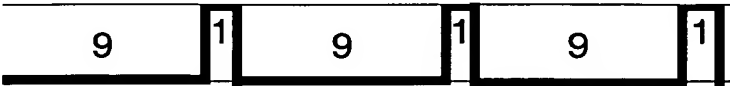
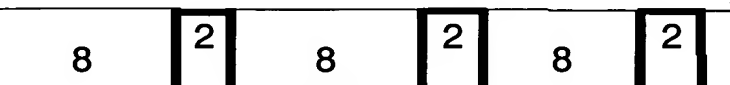
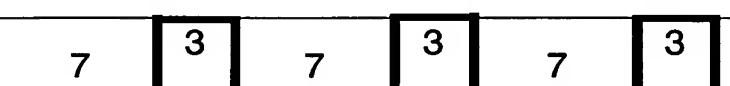
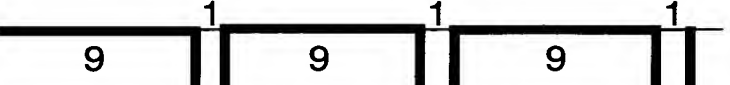
FIG. 9



10/506847

6/44

FIG. 10

Received External Information	Blinking Mode
0	ON _____ OFF _____
1	ON _____ OFF 
2	ON _____ OFF 
3	ON _____ OFF 
⋮	
9	ON  OFF _____
10 or larger	ON _____ OFF _____

7/44

FIG. 11

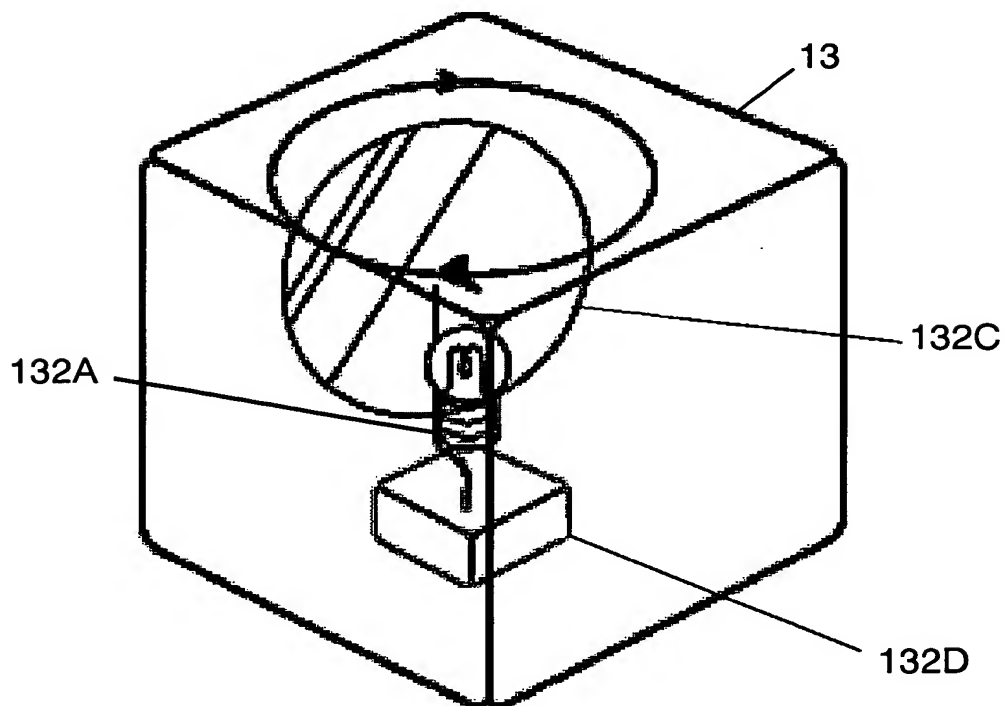
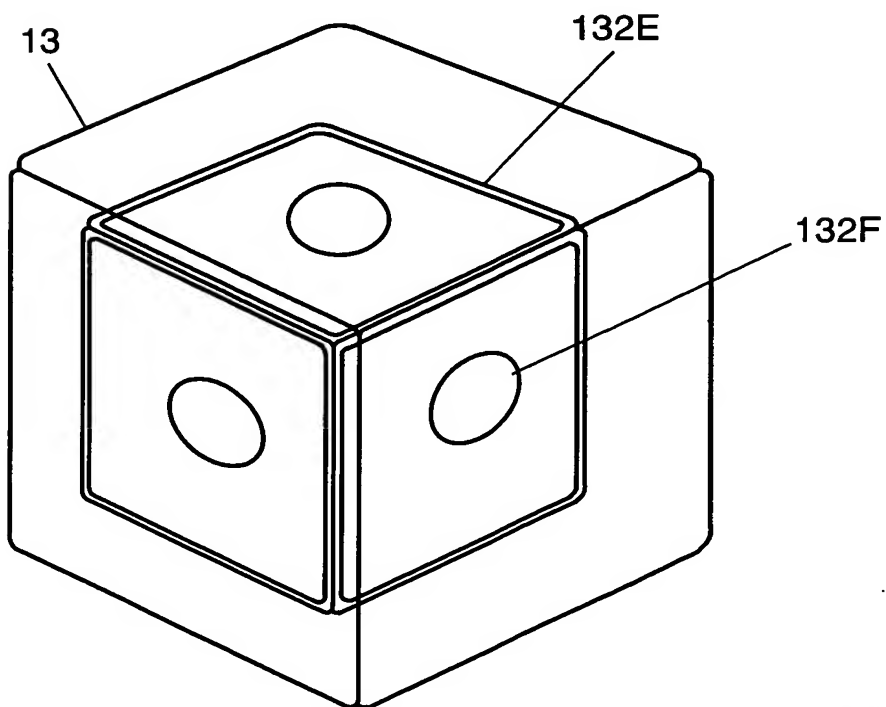
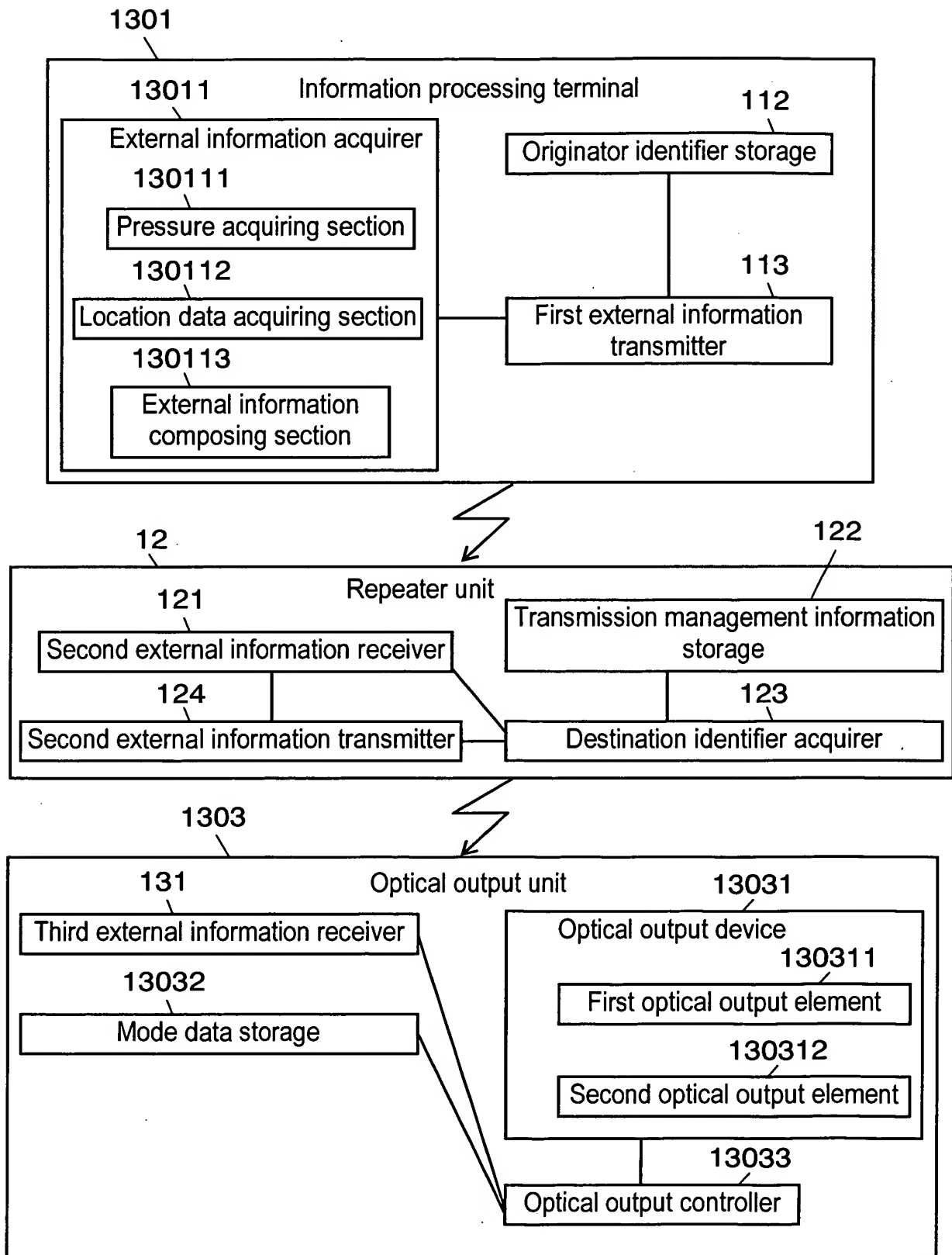


FIG. 12



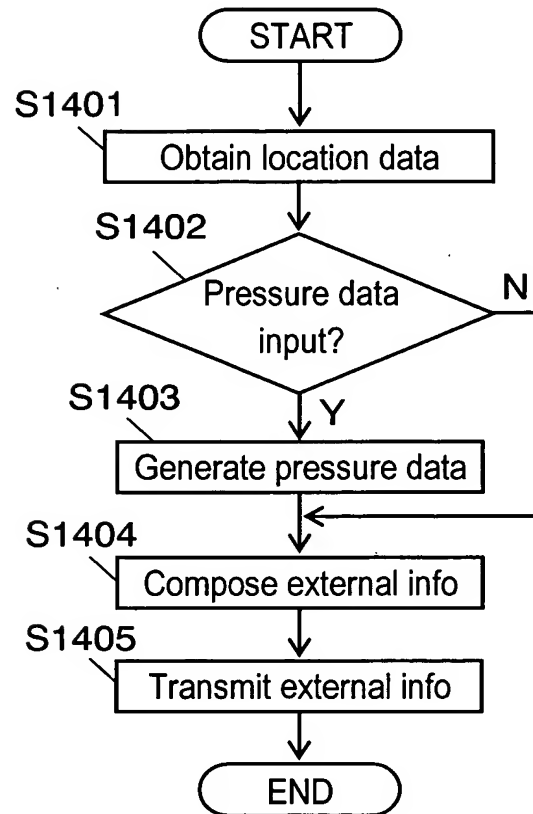
BEST AVAILABLE COPY

FIG. 13



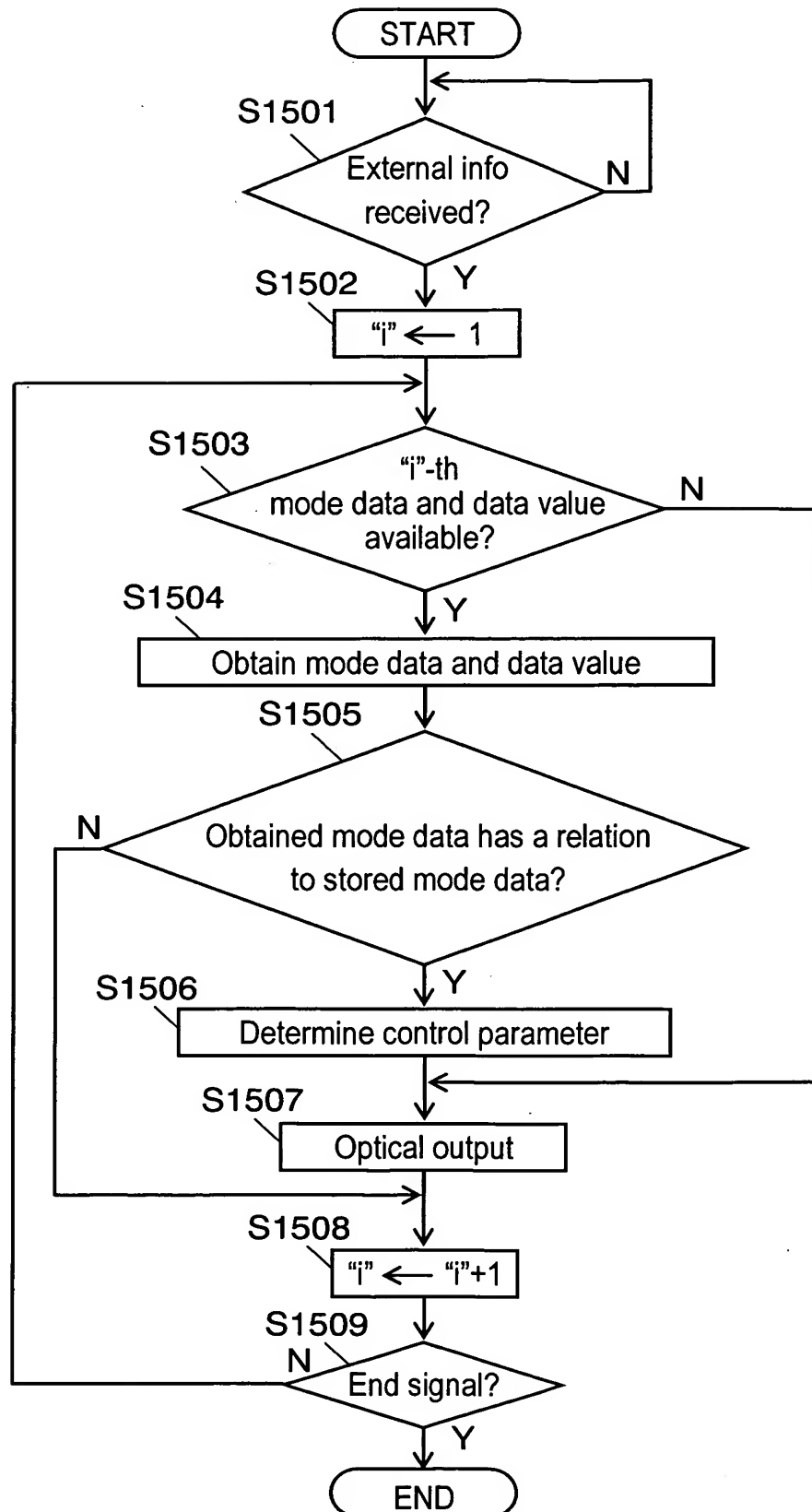
9/44

FIG. 14



10/44

FIG. 15



11/44

FIG. 16

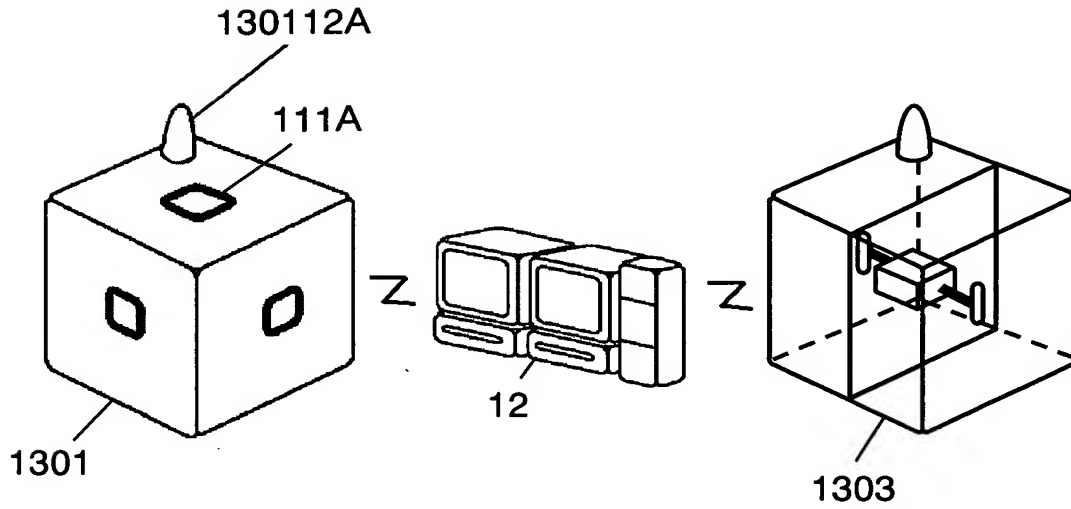


FIG. 17

Data of sensor 1	Data of sensor 2	Data of sensor 6
------------------	------------------	-------	------------------

FIG. 18

0	0	20	5	5	20
---	---	----	---	---	----

10/506847

12/44

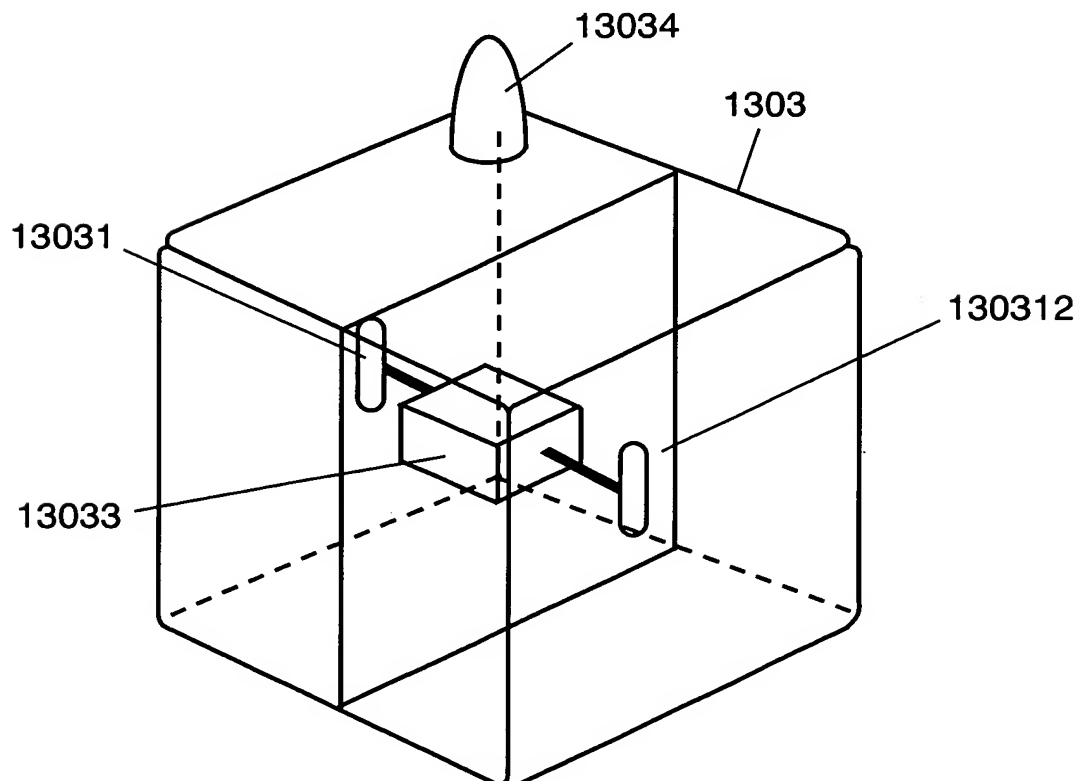
FIG. 19

X (Latitude)	Y (Longitude)	Z (Altitude)
136	110	5

FIG. 20

Mode data	ID	Data value
Location data	2	(136,110,5)
Pressure data	1	12.5

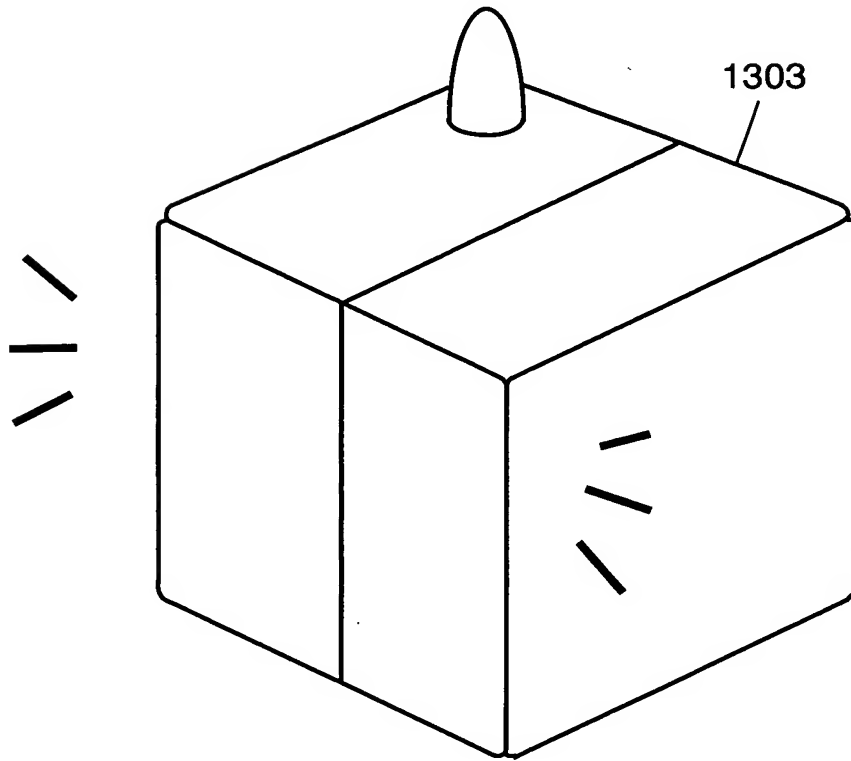
FIG. 21



10/506847

13/44

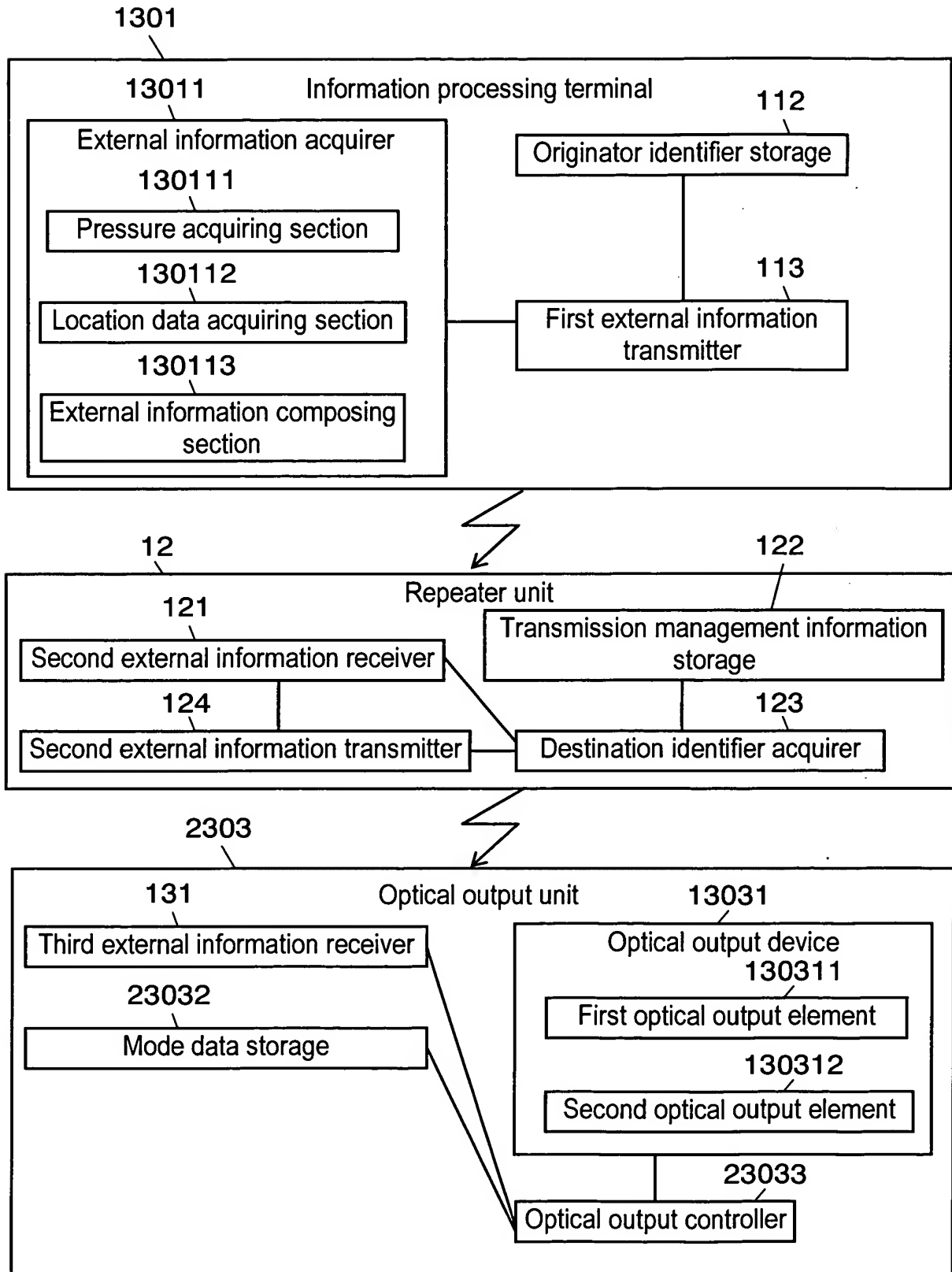
FIG. 22



10/506847

14/44

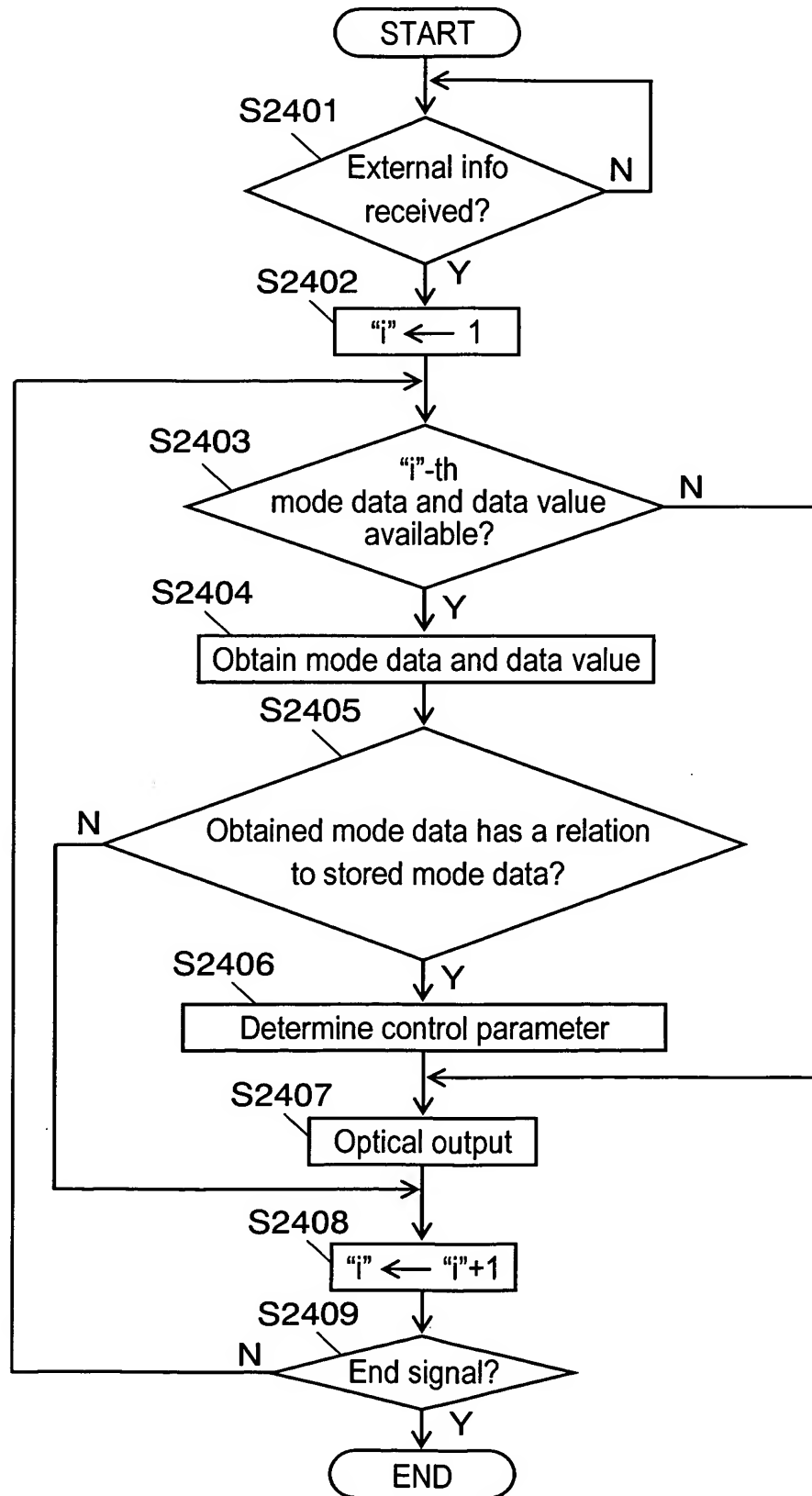
FIG. 23



10/506847

15/44

FIG. 24



16/44

FIG. 25

Optical output element identifier	Mode data	Optical output method identifier
First optical output element	Pressure data	Blinking
Second optical output element	Location data	Turning

FIG. 26

Optical output method identifier
Intensity of light
Color of light
Blinking of light
Turning of light
Dimension of light

FIG. 27

Mode data and optical output method identifier setting panel

Select desired mode data and/or optical output method identifier

Optical output element	Mode data	Optical output method identifier
1st optical output element	Pressure data	Blinking of light
2nd optical output element	Location data	

Menu

Intensity of light

Color of light

Blinking of light

Turning of light

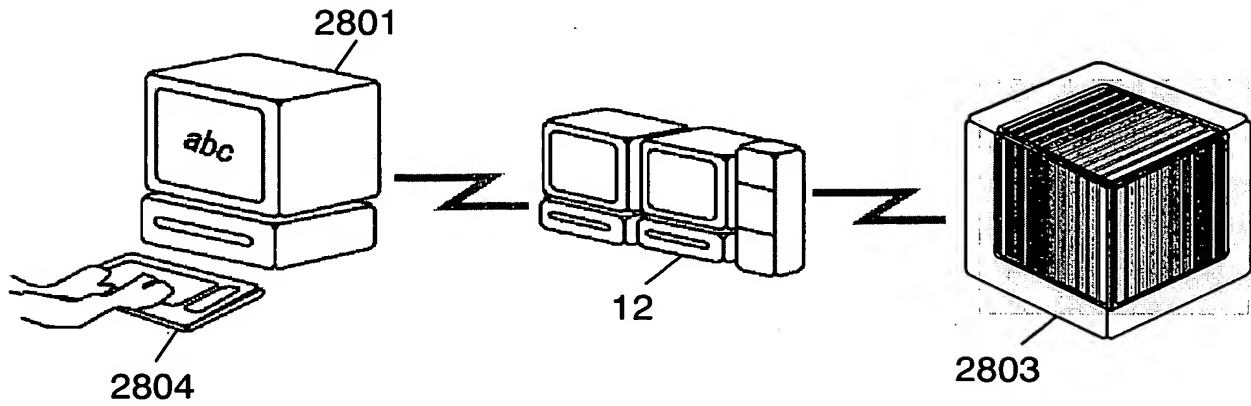
Dimension of light

Enter

10/506847

17/44

FIG. 28

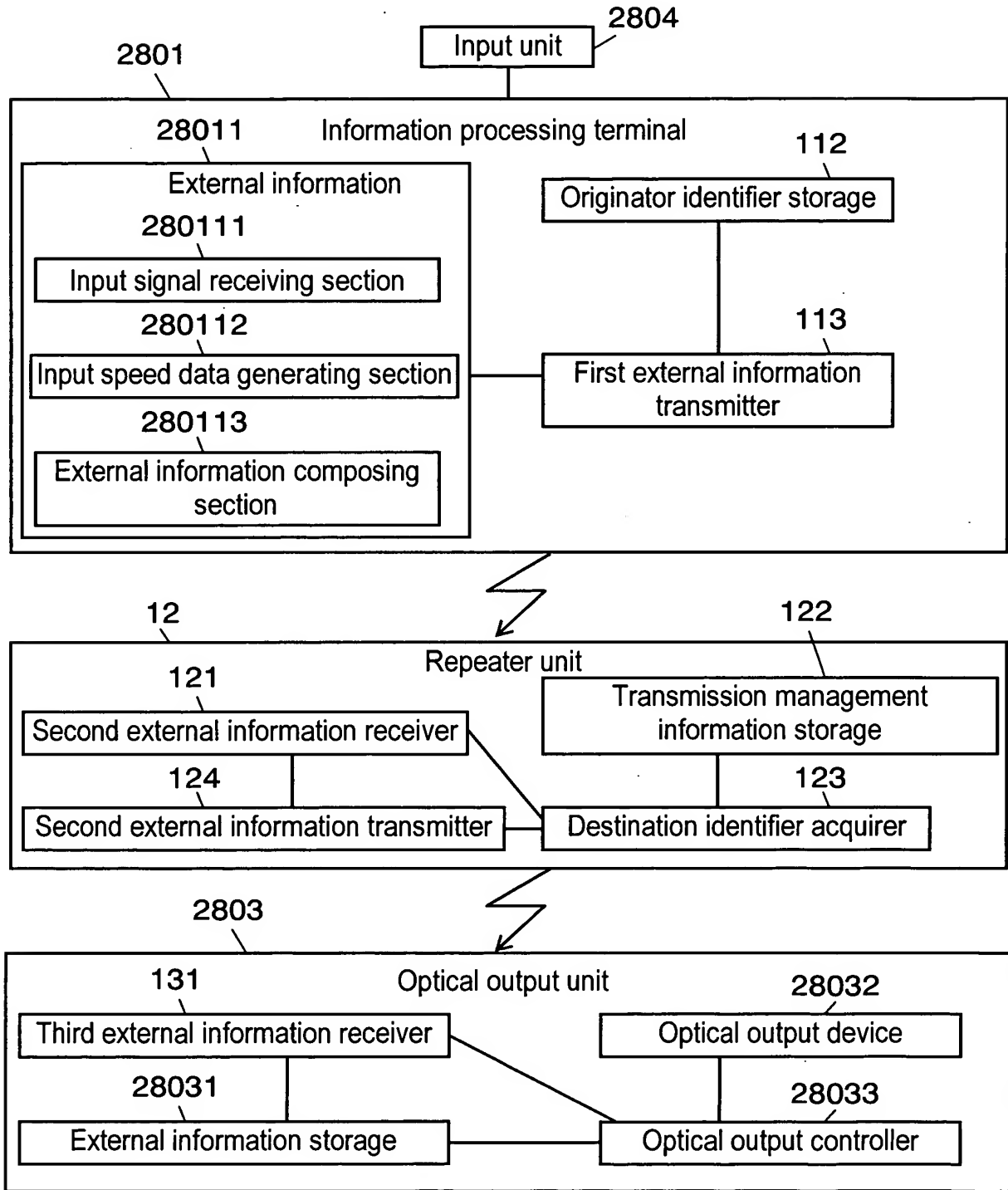


BEST AVAILABLE COPY

10,506,847

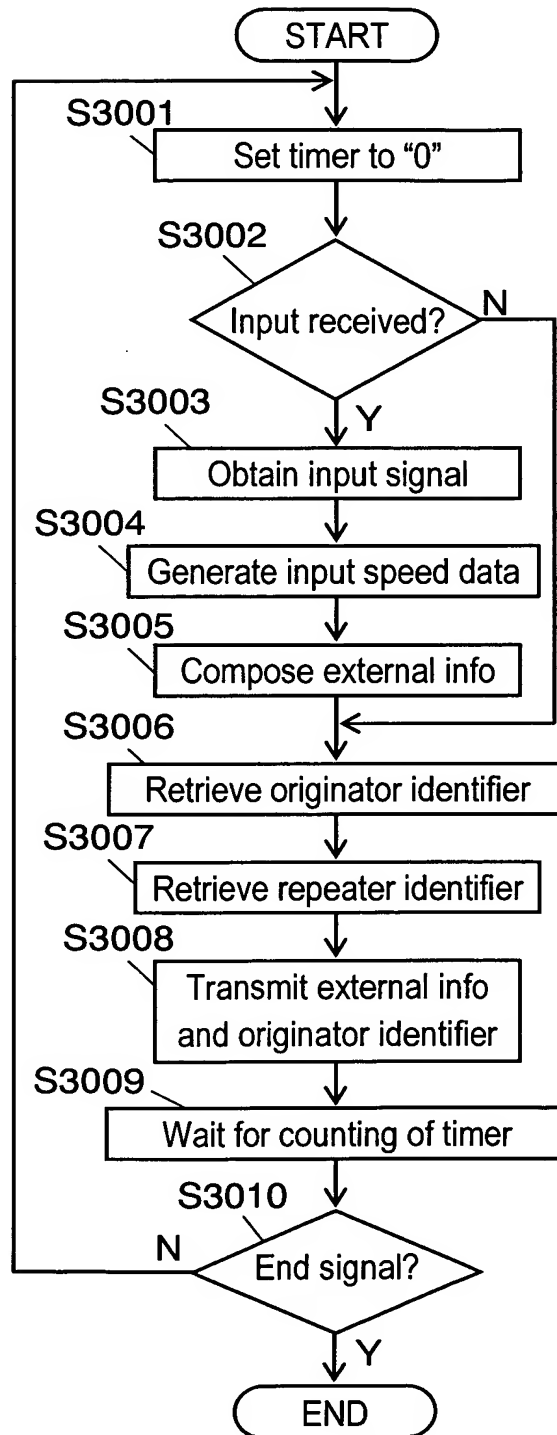
18/44

FIG. 29



19/44

FIG. 30



10/506847

20/44

FIG. 31

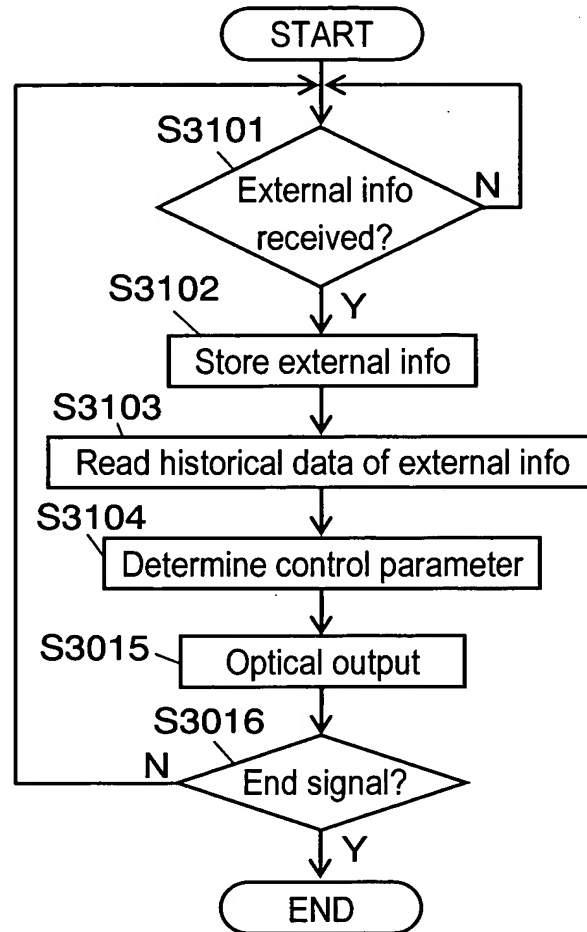


FIG. 32

Time	External information
9:01	3
9:02	10
9:03	61
9:04	74
⋮	⋮
10:00	123

21/44

FIG. 33

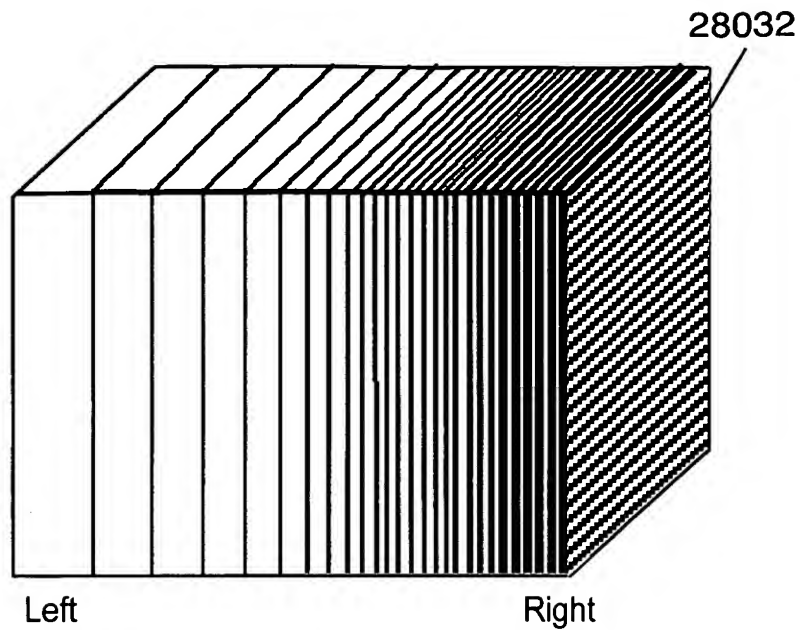
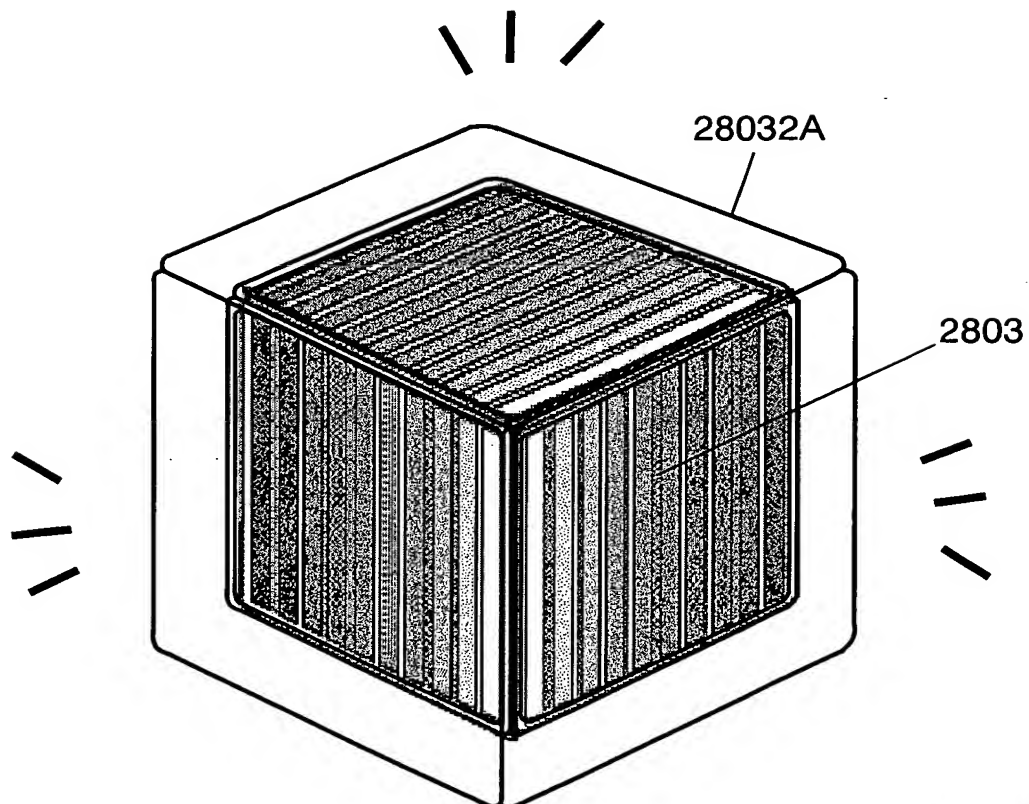


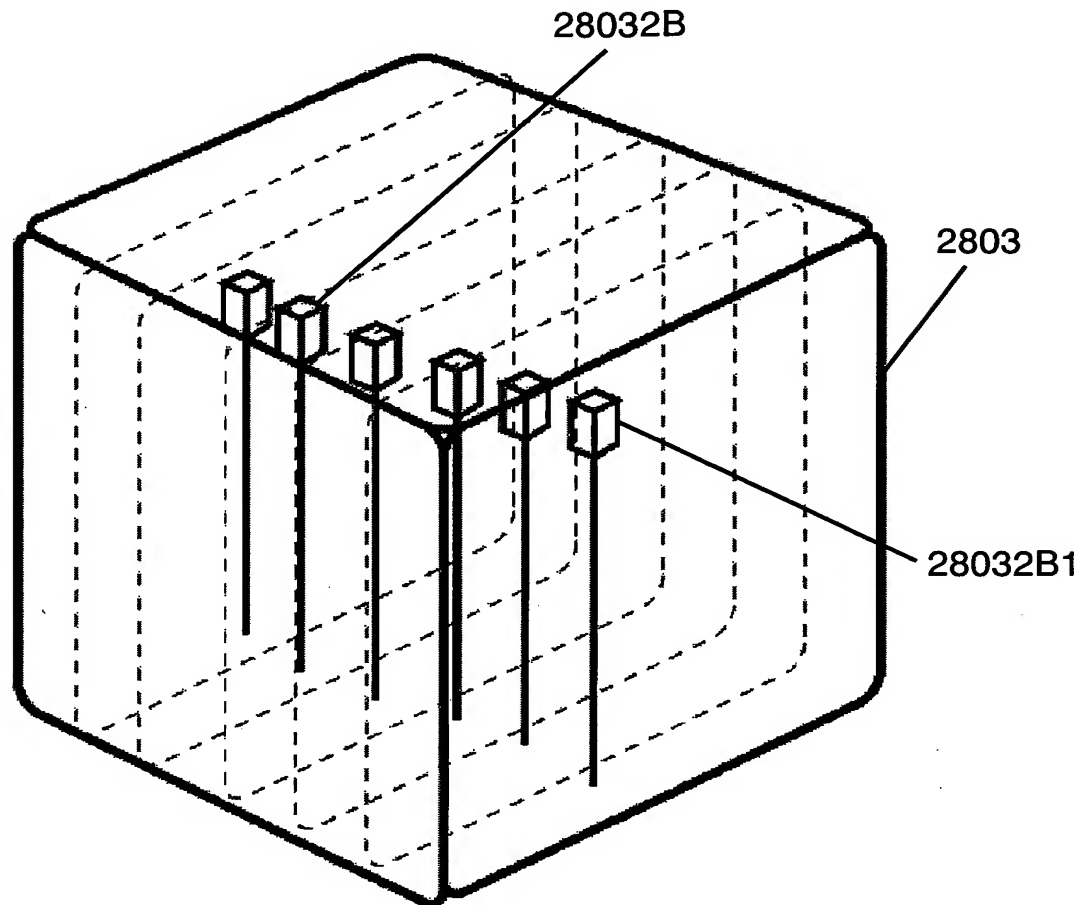
FIG. 34



10/506847

22/44

FIG. 35

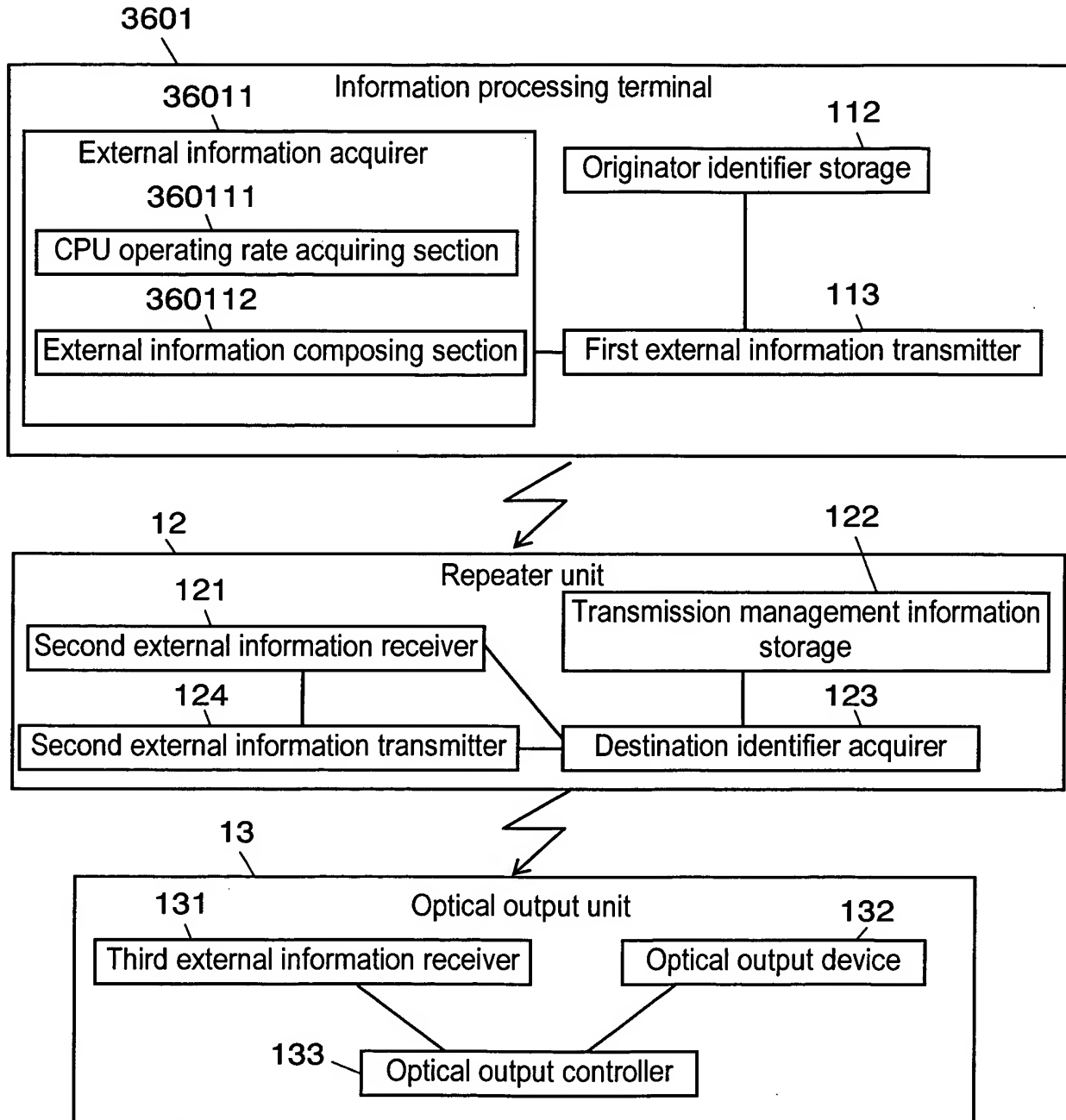


BEST AVAILABLE COPY

10/506847

23/44

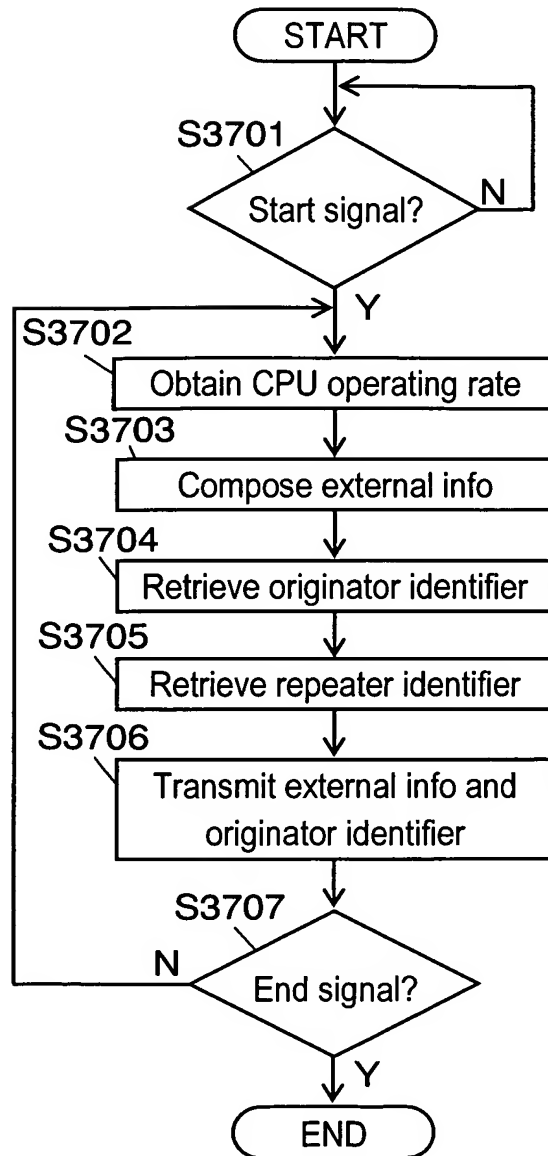
FIG. 36



101506847

24/44

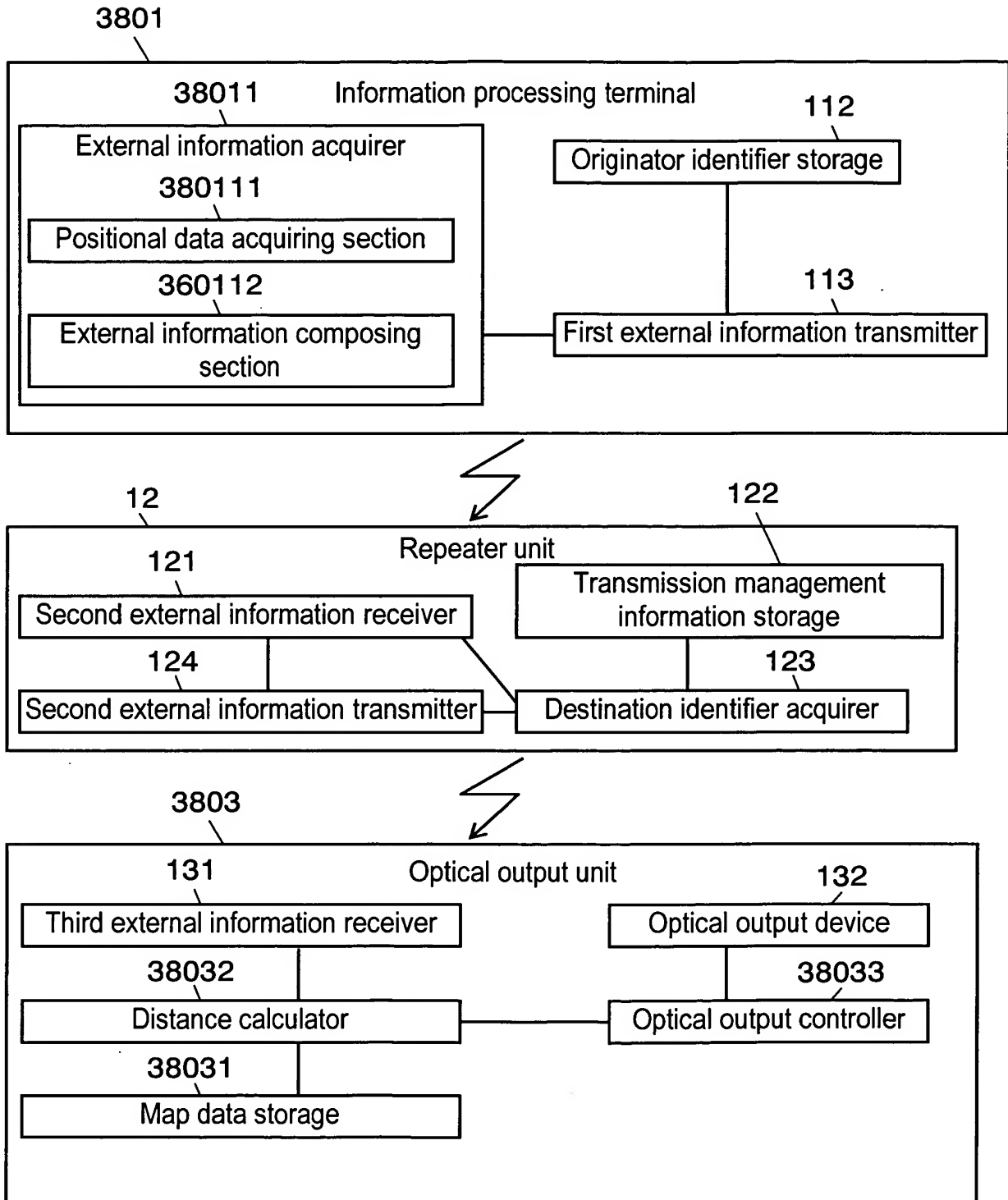
FIG. 37



10/506847

25/44

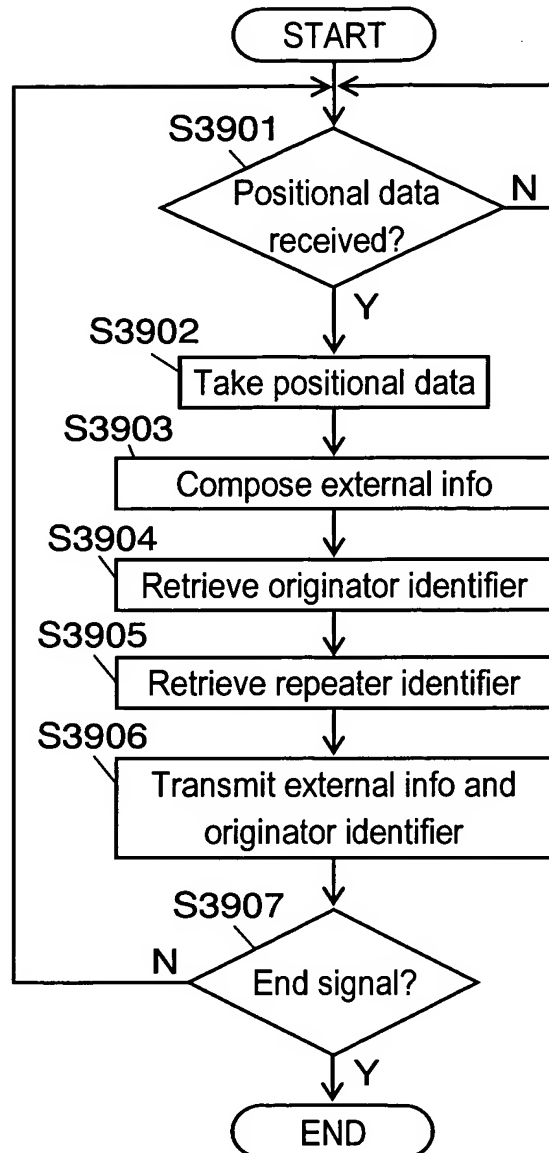
FIG. 38



10/506847

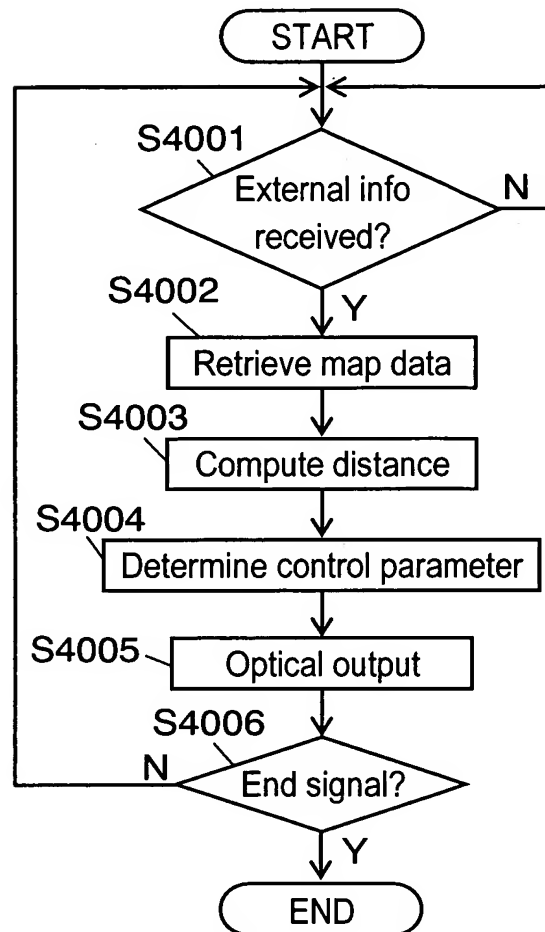
26/44

FIG. 39



27/44

FIG. 40



28/44

FIG. 41

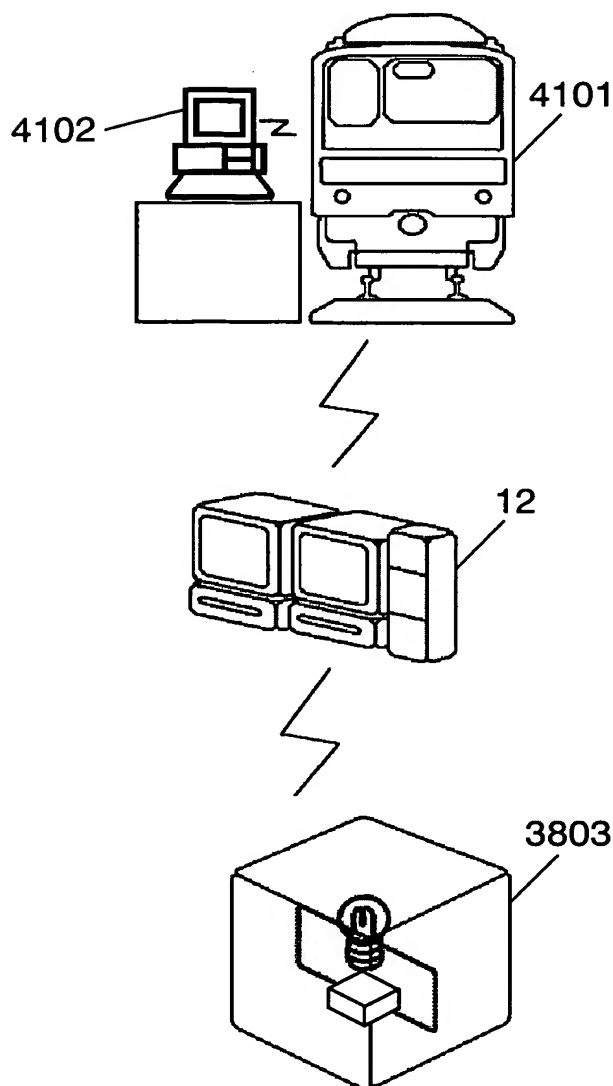


FIG. 42

"ABC Railway Company - Distance Management Table for X-Line"

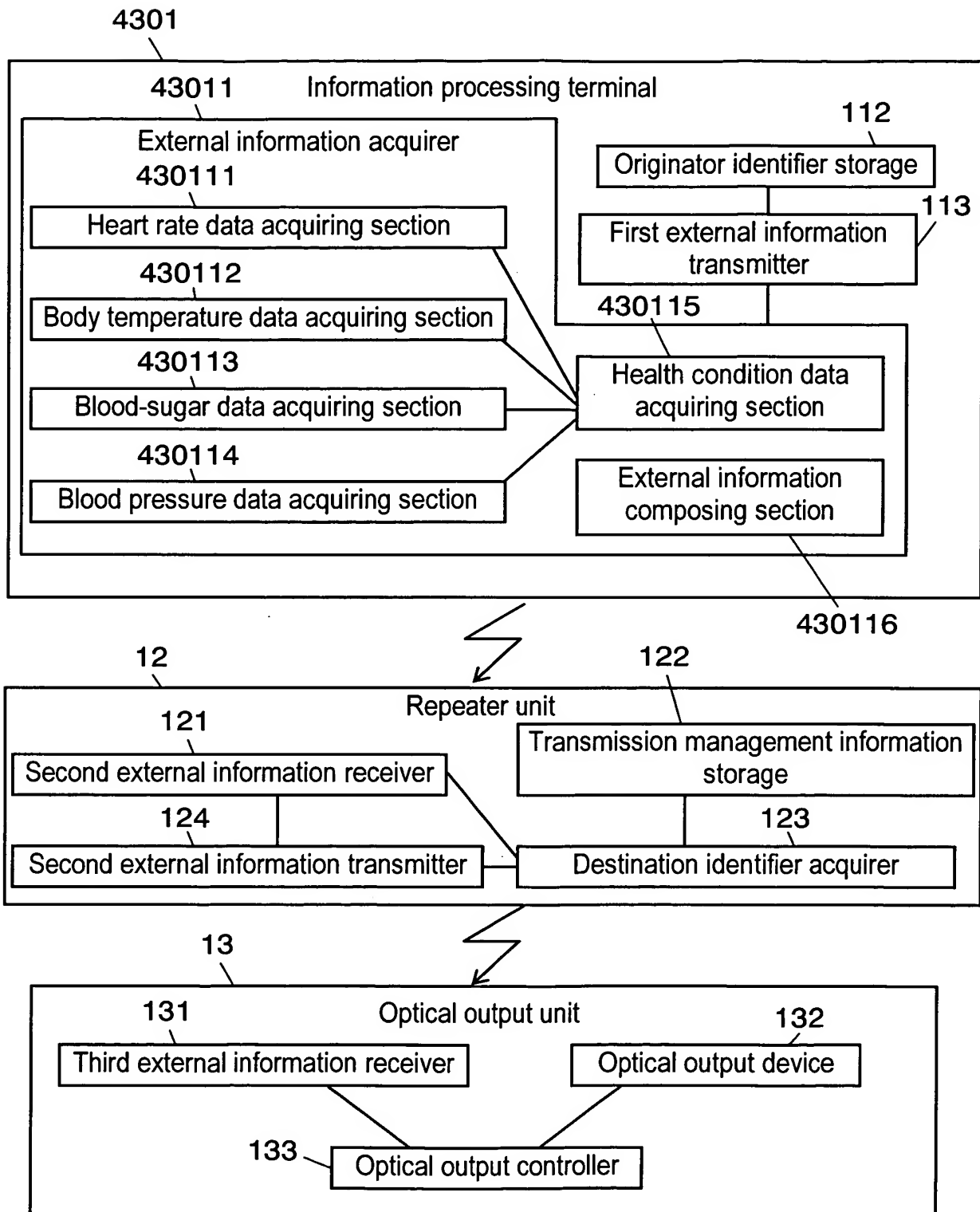
Station Identifier	A Station	B Station	C Station	D Station	F Station
Distance	0	5,2Km	8,4Km	10,3Km	15,0Km

nearest station: D station

10/506847

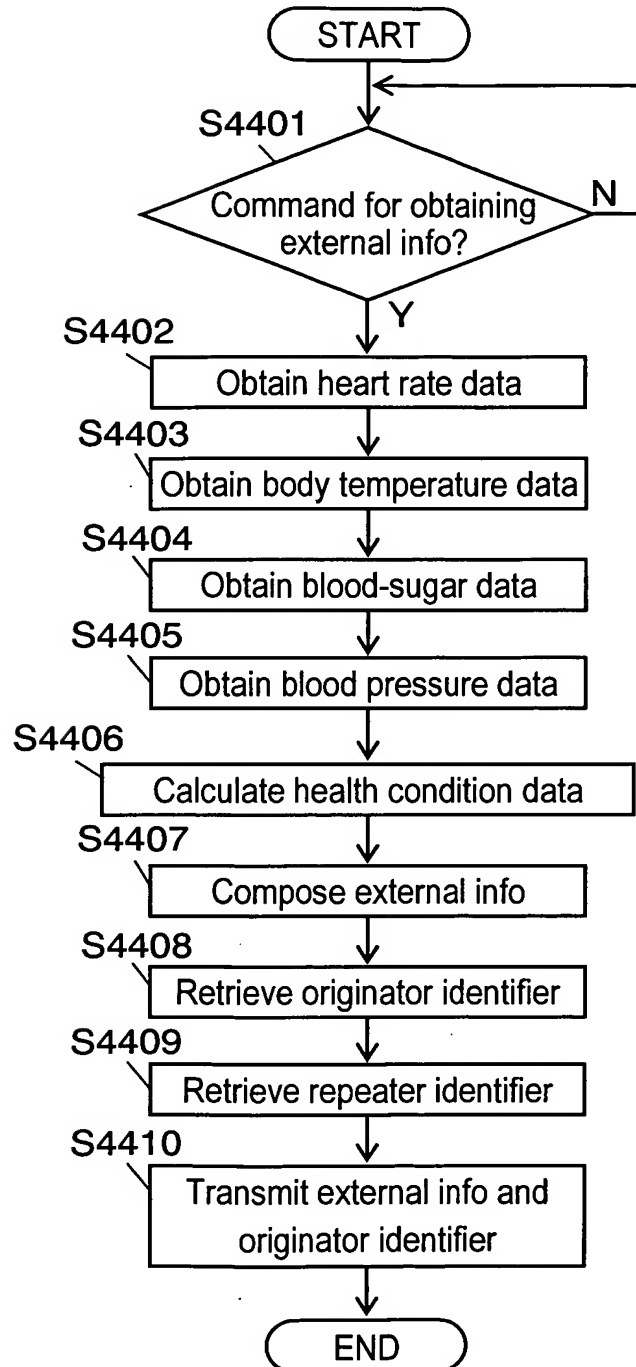
29/44

FIG. 43



30/44

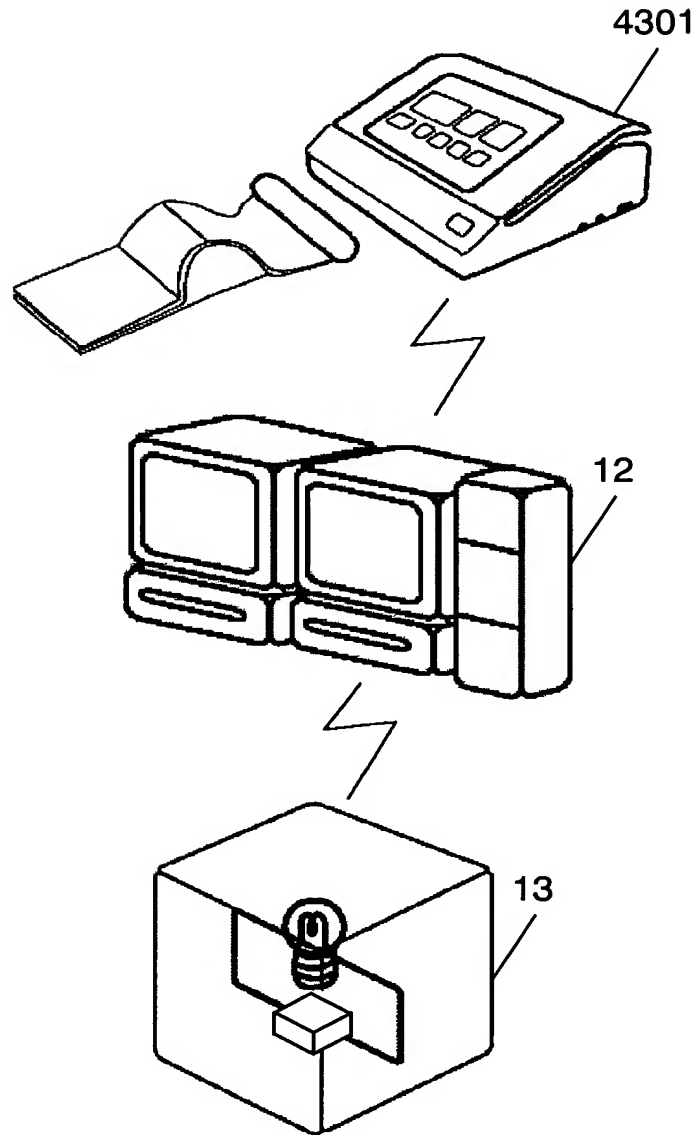
FIG. 44



10/506847

31/44

FIG. 45



BEST AVAILABLE COPY

32/44

FIG. 46

Score	Heart Rate	Body Temp	Blood Sugar Level	Blood Pressure
0	91 or higher	40.1 or higher	151 or higher	Systolic pressure: (180 or higher)(70 or lower) Diastolic pressure: (130 to 140)(30 to 40)
5	81 to 90	39.1 to 40.0	141 to 150	Systolic pressure: (170 to 180)(70 to 80) Diastolic pressure: (120 to 130)(40 to 50)
10	71 to 80	38.1 to 39.0	131 to 140	Systolic pressure: (160 to 170)(80 to 90) Diastolic pressure: (110 to 120)(40 to 50)
15	61 to 70	35.9 or lower 37.3 to 38.0	121 to 130	Systolic pressure: (150 to 160)(90 to 100) Diastolic pressure: (100 to 110)(50 to 60)
20	51 to 60	36.0 to 36.2 36.9 to 37.2	111 to 120	Systolic pressure: (140 to 150)(100 to 110) Diastolic pressure: (90 to 100)(60 to 70)
25	50 or lower	36.3 to 36.8	110 or lower	Systolic pressure: (110 to 140) Diastolic pressure: (70 to 90)

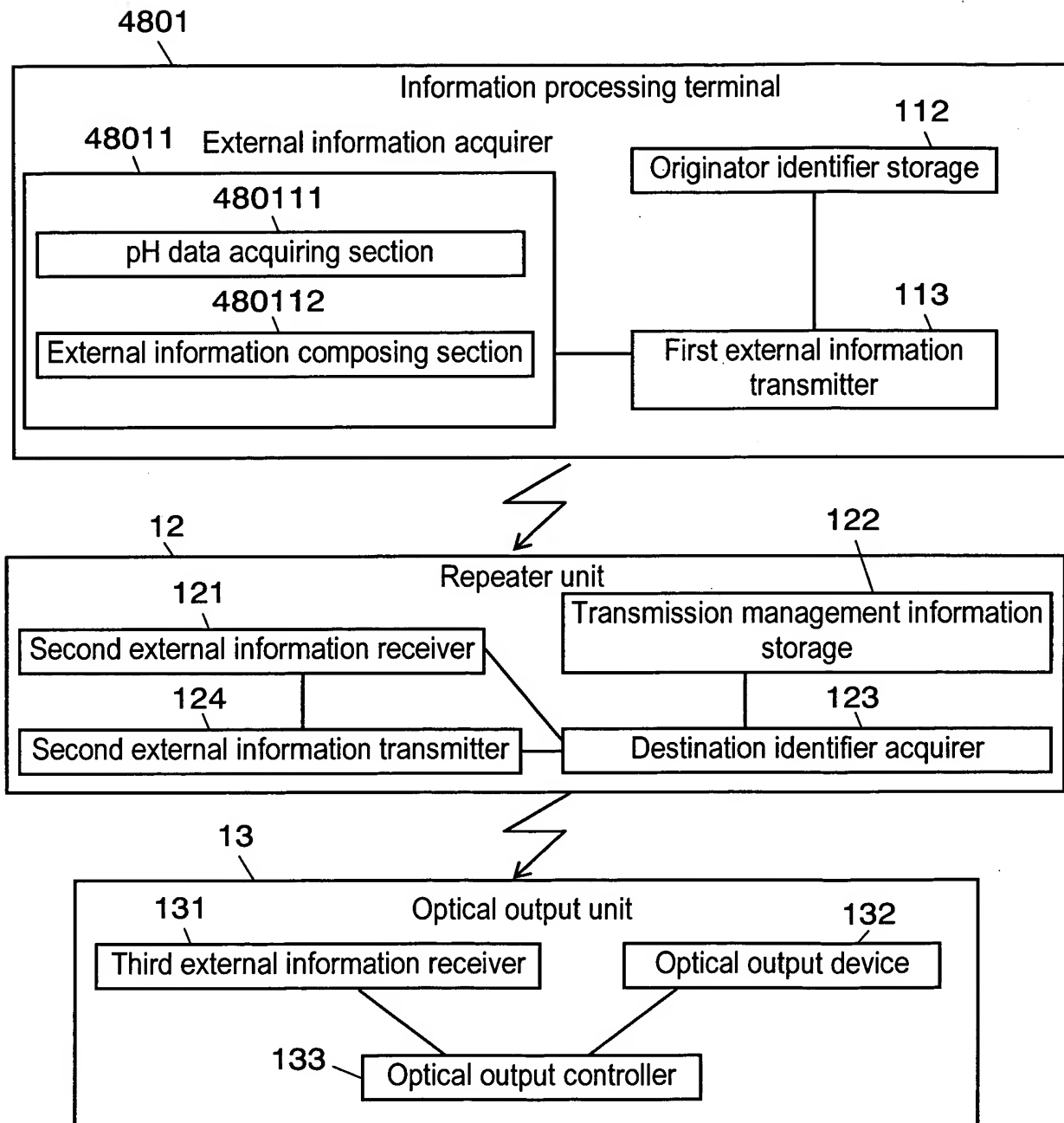
FIG. 47

< heart rate data>	78
< body temperature data>	36.5
< blood-sugar data>	80
< blood pressure data>	133 over 70
< health condition data>	85

10/506847

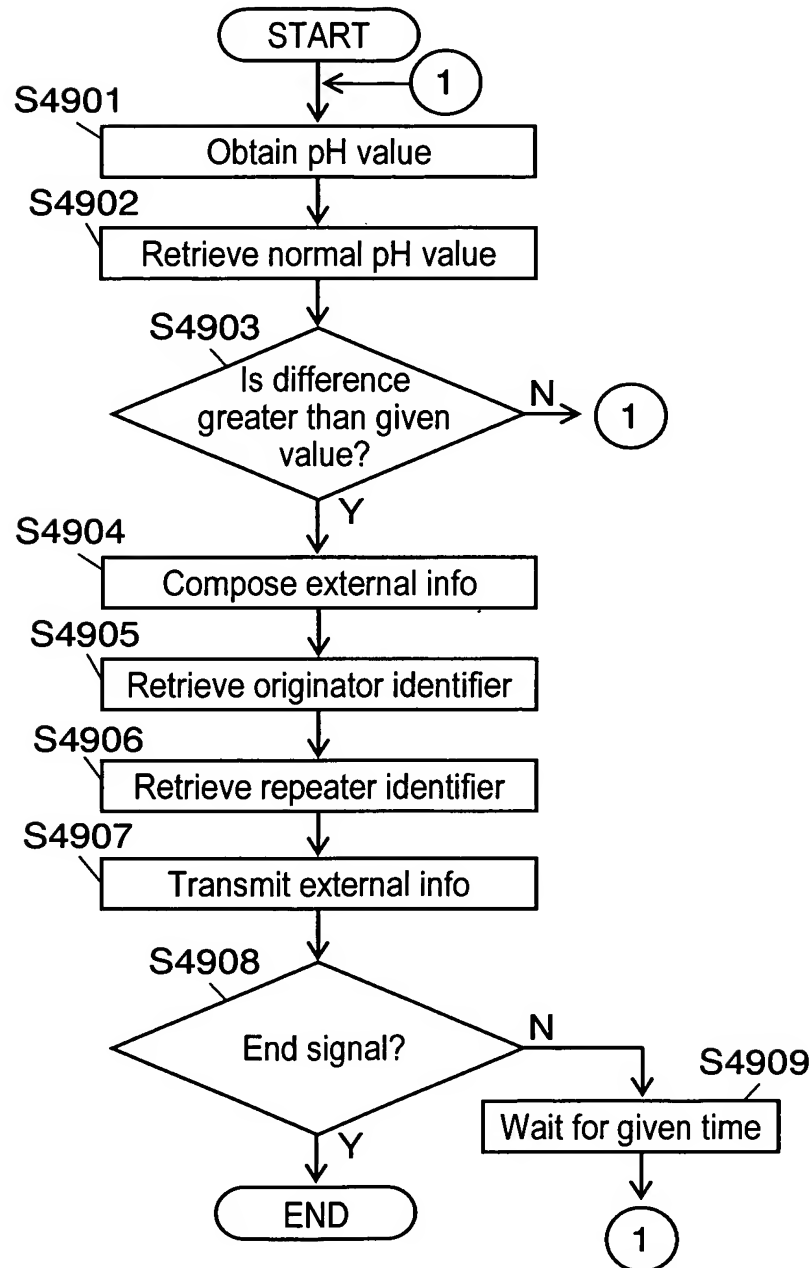
33/44

FIG. 48



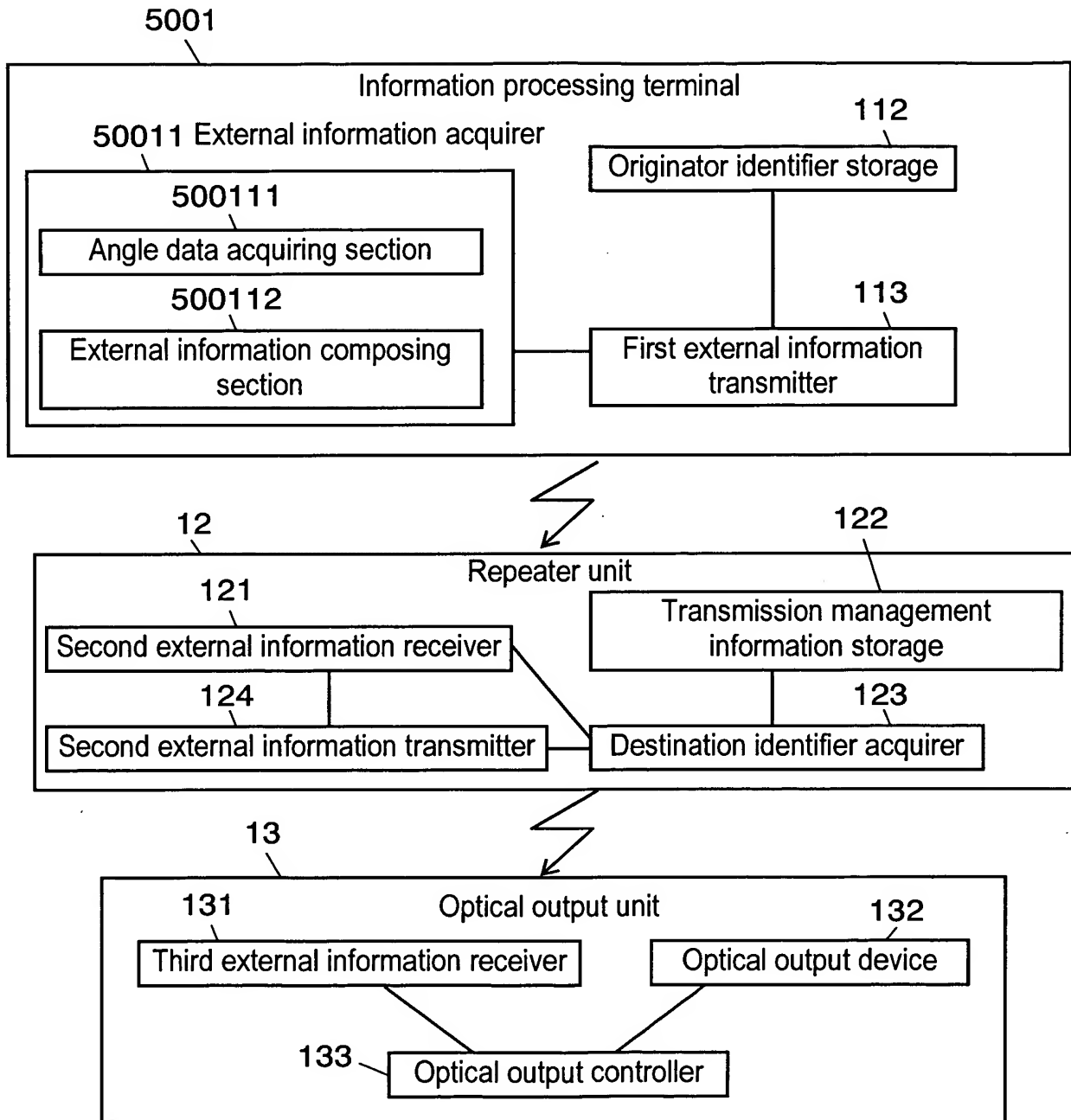
34/44

FIG. 49



35/44

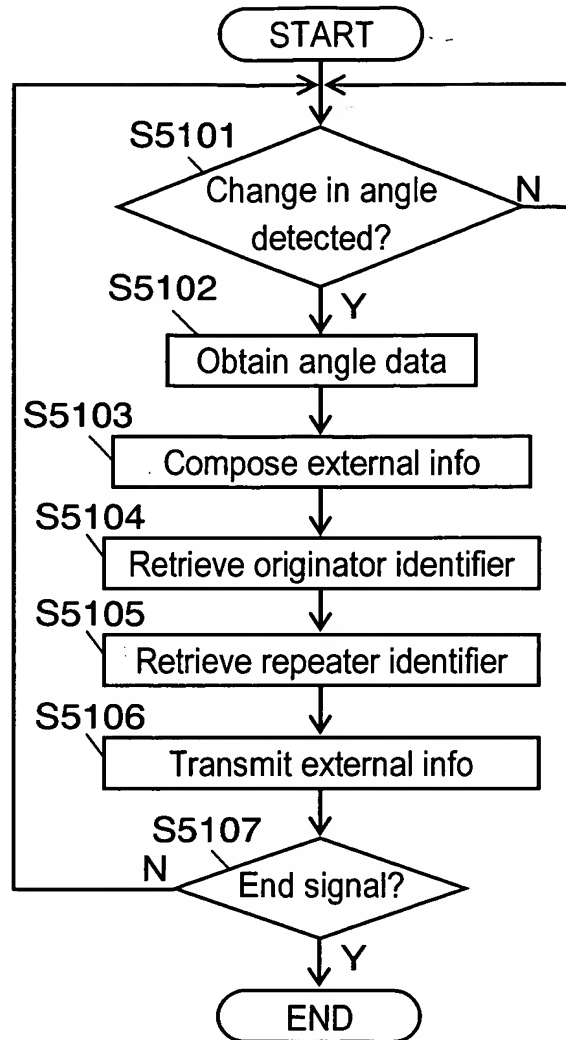
FIG. 50



10/506847

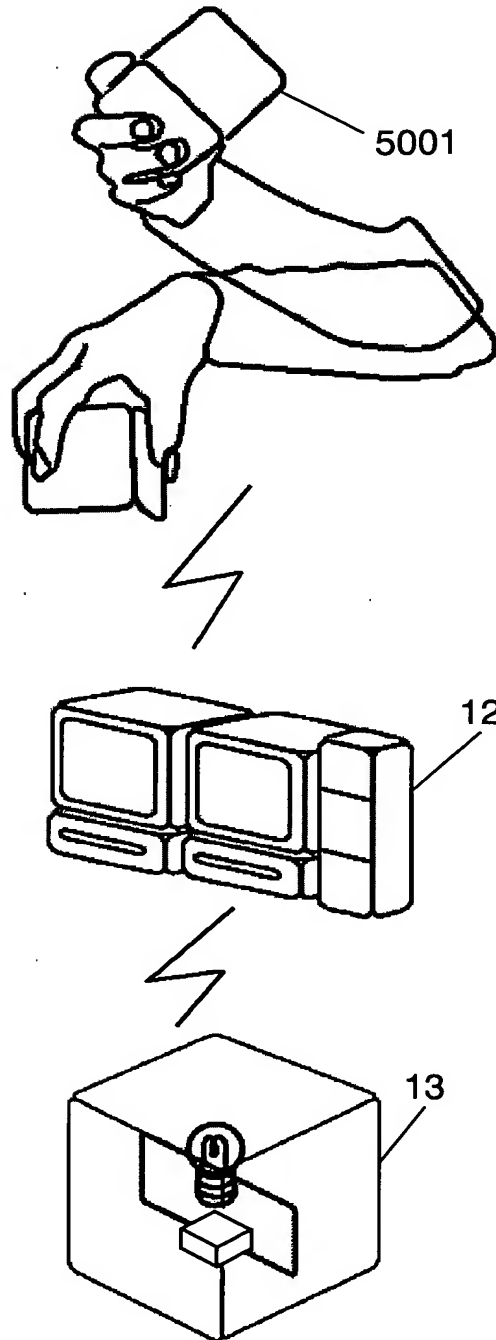
36/44

FIG. 51



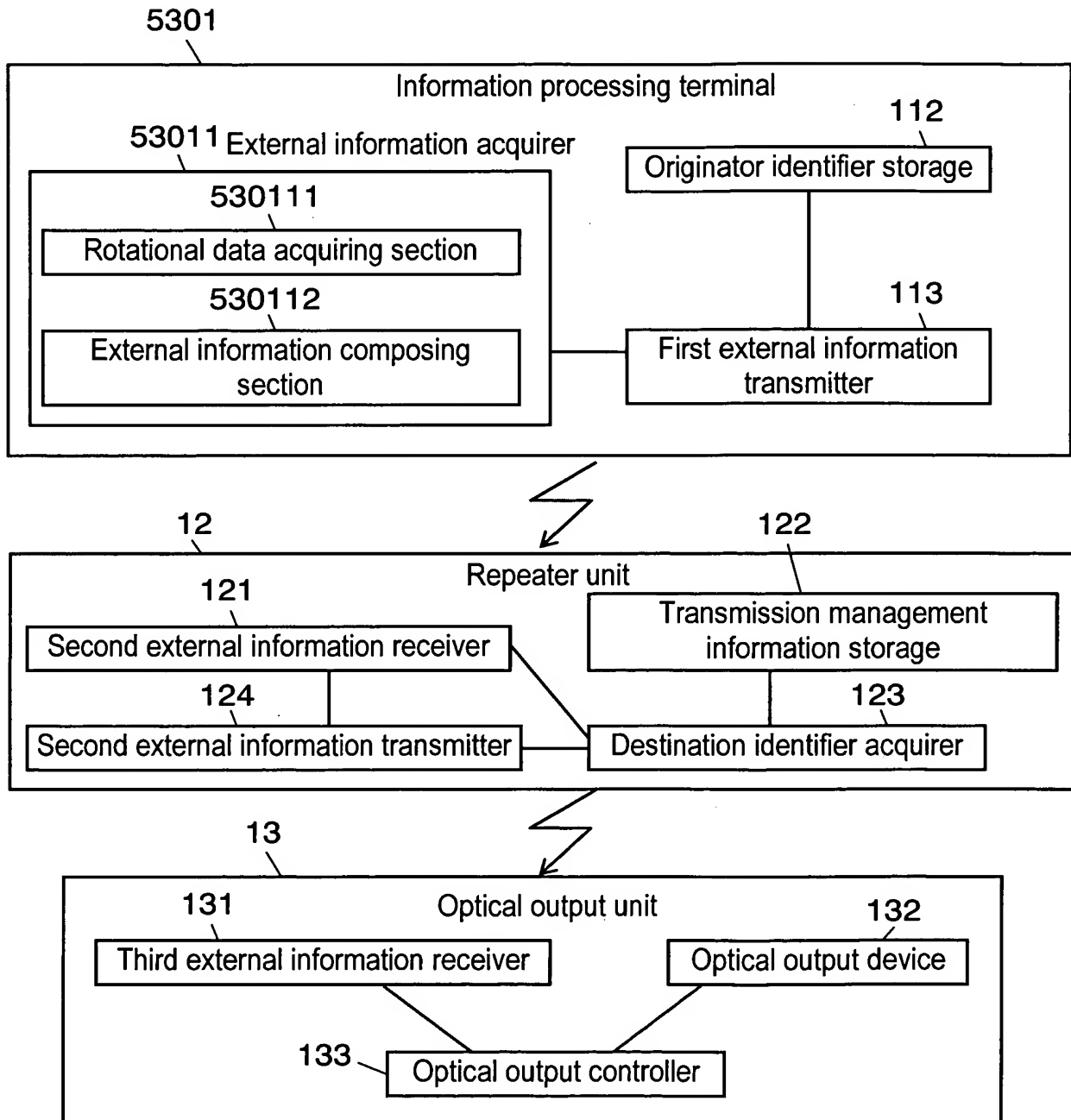
37/44

FIG. 52



38/44

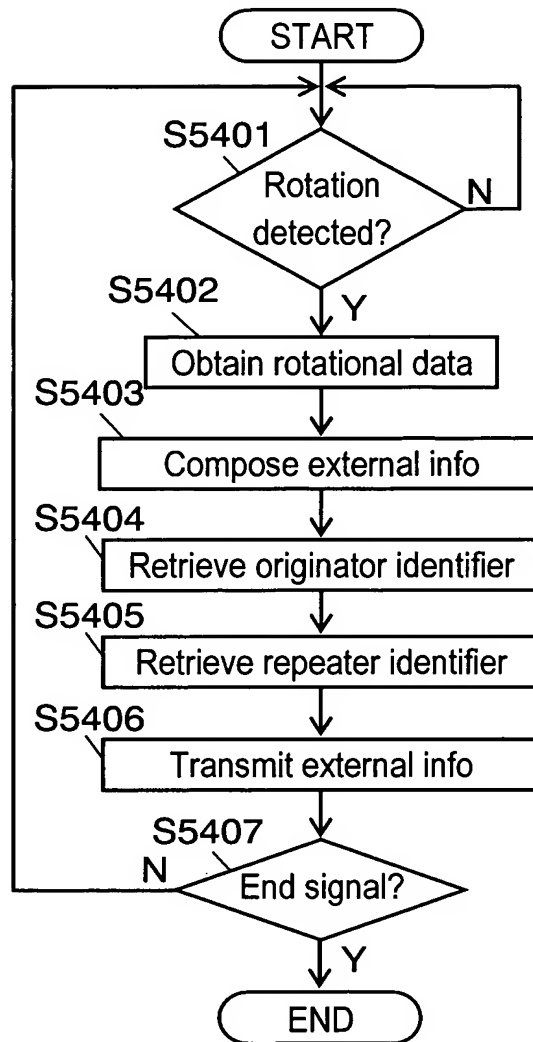
FIG. 53



10/506847

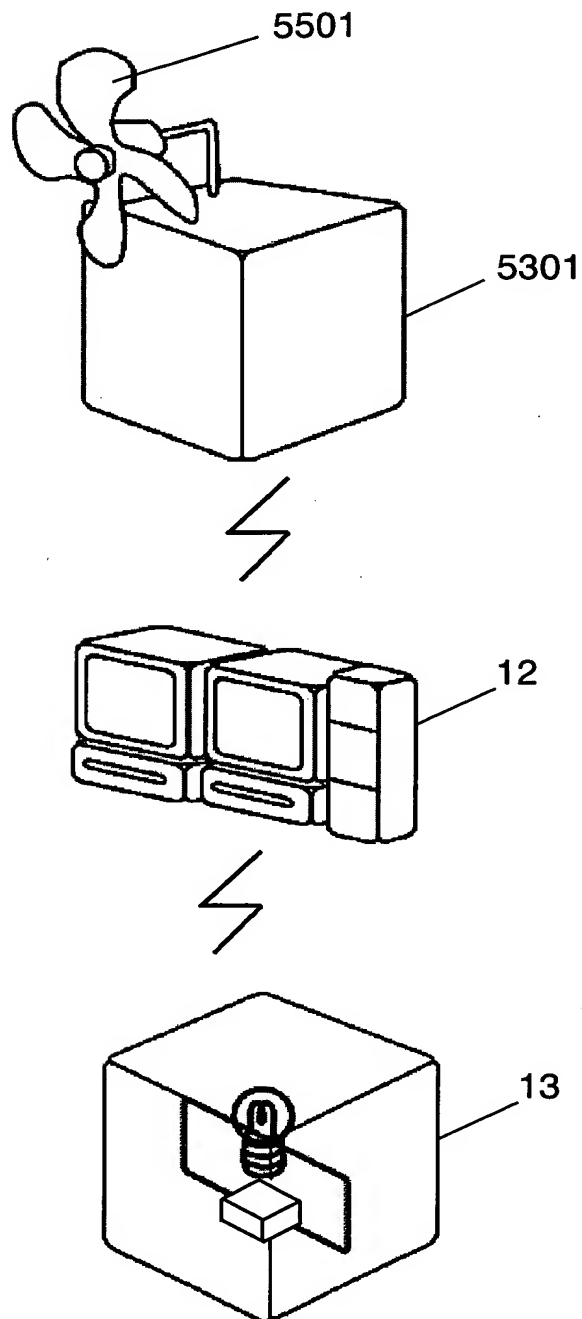
39/44

FIG. 54



40/44

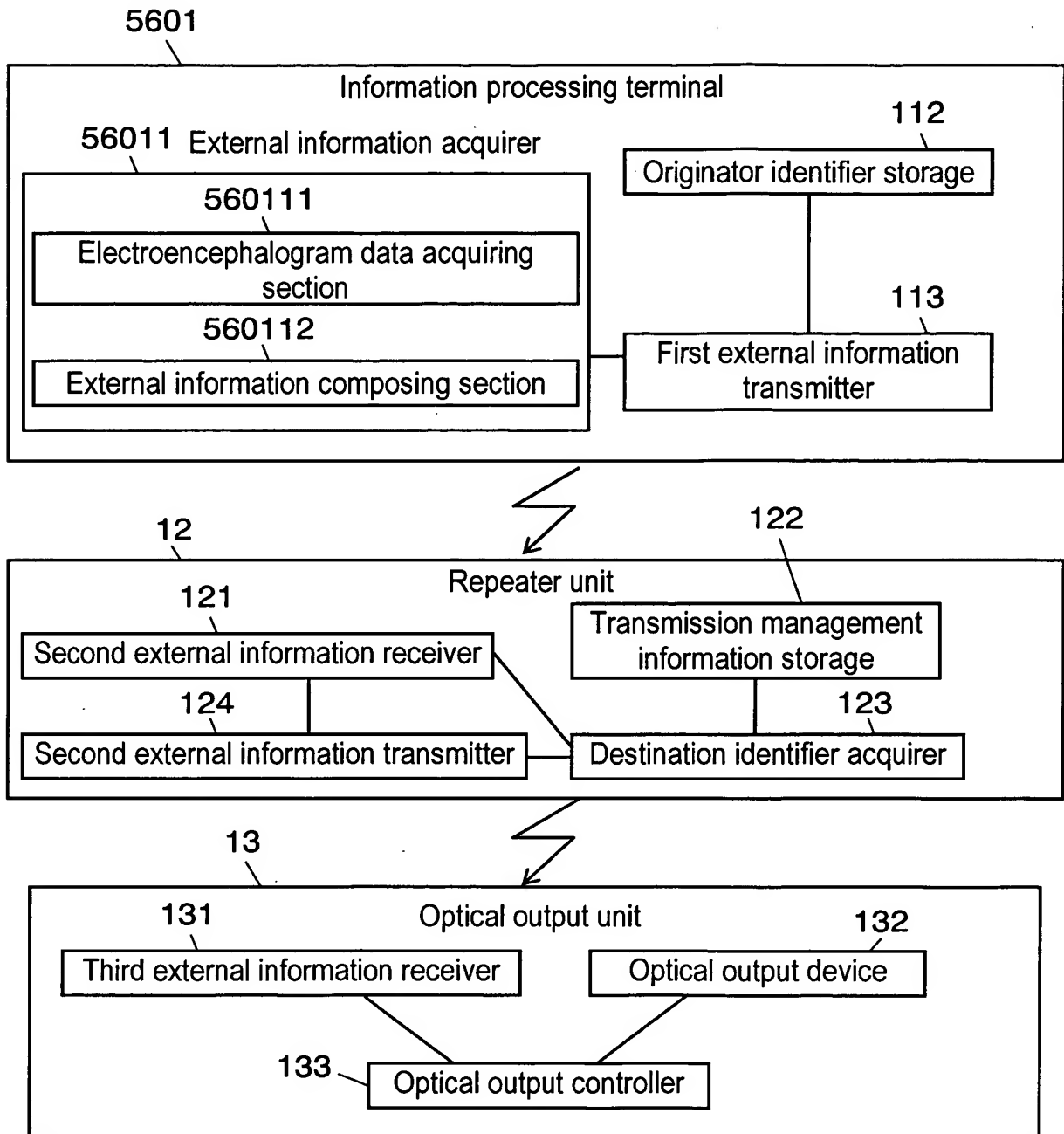
FIG. 55



10/506847

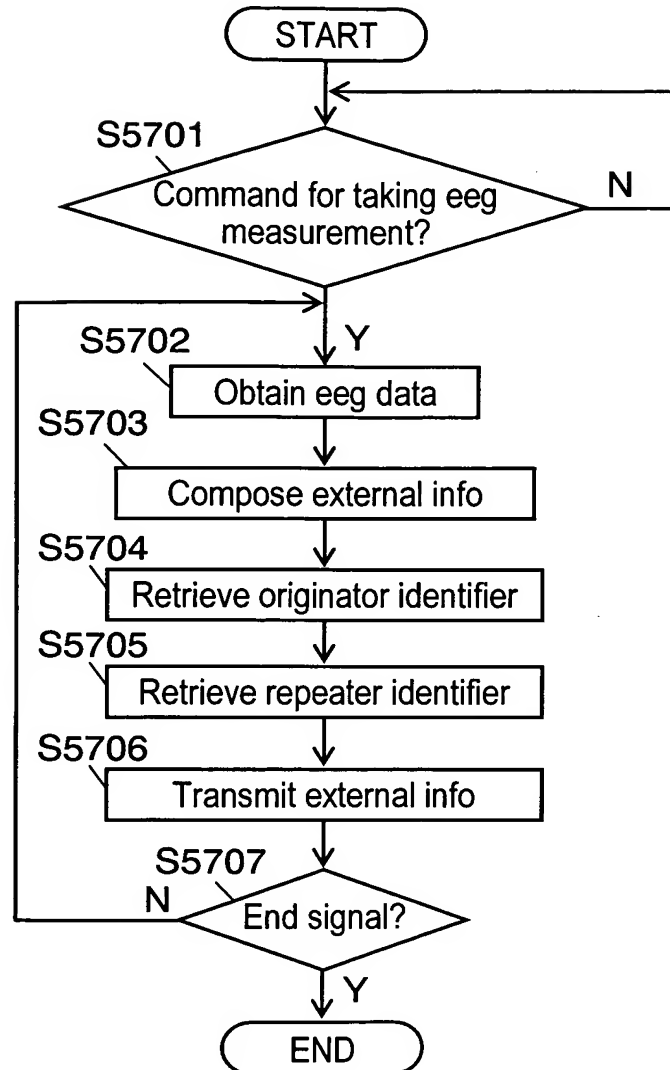
41/44

FIG. 56



42/44

FIG. 57



Reference Marks in the Drawings

- 11, 1301, 2801, 3601, 3801, 4301, 4801, 5001, 5301, 5601. Information processing terminal
- 12. Repeater unit
- 13, 1303, 2303, 2803, 3803. Optical output unit
- 111, 13011, 28011, 36011, 38011, 43011, 48011, 50011, 53011, 56011. External information acquirer
- 111A. Pressure sensor
- 112. Originator identifier storage
- 113. First external information transmitter
- 121. Second external information receiver
- 122. Transmission management information storage
- 123. Destination identifier acquirer
- 124. Second external information transmitter
- 130112A. GPS receiver
- 130331. Blue color LED
- 130312. Red color LED
- 13034. Second location data acquiring section
- 131. Third external information receiver
- 132, 13031, 28032. Optical output device
- 132A. Miniature lamp
- 132B. Three-colored LED
- 132C. Reflector
- 132D. Driving unit
- 132E, 28032A. Liquid crystal display
- 132F. Circular graphics
- 133, 13033, 23033, 28032, 28033, 38033. Optical output controller
- 133A, 133B. Voltage controller
- 13032, 23032. Mode data storage
- 28031. External information storage
- 28032B. LED
- 28032B1. LED at the right end
- 2804. Input unit
- 38031. Map data storage
- 38032. Distance calculator
- 4101. Train

44/44

- 4102. Information processing unit
 - 130111. Pressure acquiring section
 - 130112. Location data acquiring section
 - 130113, 280113, 360112, 380112, 430116, 480112, 500112, 530112, 560112. External information composing section
 - 130311. First optical output element
 - 130312. Second optical output element
 - 280111. Input signal receiving section
 - 280112. Input speed data generating section
 - 360111. CPU operating rate acquiring section
 - 380111. Positional data acquiring section
 - 430111. Heart rate data acquiring section
 - 430112. Body temperature data acquiring section
 - 430113. Blood-sugar data acquiring section
 - 430114. Blood pressure data acquiring section
 - 430115. Health condition data acquiring section
 - 480111. pH data acquiring section
 - 500111. Angle data acquiring section
 - 530111. Rotational data acquiring section
 - 5501. Windmill
 - 560111. Electroencephalogram data acquiring section